



**First March Logistics
(DPR20-00004)
GREENHOUSE GAS ANALYSIS
CITY OF PERRIS**

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LIST OF ABBREVIATED TERMS

| | |
|--|--|
| % | Percent |
| °C | Degrees Celsius |
| °F | Degrees Fahrenheit |
| (1) | Reference |
| 2017 Scoping Plan | Final 2017 Scoping Plan Update |
| AB | Assembly Bill |
| AB 32 | Global Warming Solutions Act of 2006 |
| AB 1493 | Pavley Fuel Efficiency Standards |
| AB 1881 | California Water Conservation Landscaping Act of 2006 |
| Annex I | Industrialized Nations |
| APA | Administrative Procedure Act |
| AQIA | <i>First March Logistics Air Quality Impact Analysis</i> |
| BAU | Business as Usual |
| C ₂ F ₆ | Hexafluoroethane |
| C ₂ H ₆ | Ethane |
| C ₂ H ₂ F ₄ | Tetrafluoroethane |
| C ₂ H ₄ F ₂ | Ethylidene Fluoride |
| CAA | Federal Clean Air Act |
| CalEEMod | California Emissions Estimator Model |
| CalEPA | California Environmental Protection Agency |
| CAL FIRE | California Department of Forestry and Fire Protection |
| CALGAPS | California LBNL GHG Analysis of Policies Spreadsheet |
| CALGreen | California Green Building Standards Code |
| CalSTA | California State Transportation Agency |
| Caltrans | California Department of Transportation |
| CAP | Climate Action Plan |
| CAPCOA | California Air Pollution Control Officers Association |
| CARB | California Air Resource Board |
| CBSC | California Building Standards Commission |
| CEC | California Energy Commission |
| CCR | California Code of Regulations |
| CEQA | California Environmental Quality Act |
| <i>CEQA Guidelines</i> | <i>2019 CEQA Statute and Guidelines</i> |
| CDFA | California Department of Food and Agriculture |
| CF ₄ | Tetrafluoromethane |
| CFC | Chlorofluorocarbons |

| | |
|-------------------|---|
| CFC-113 | Trichlorotrifluoroethane |
| CH ₄ | Methane |
| City | City of Perris |
| CNRA | California Natural Resources Agency |
| <i>CNRA 2009</i> | <i>2009 California Climate Adaptation Strategy</i> |
| CO ₂ | Carbon Dioxide |
| CO ₂ e | Carbon Dioxide Equivalent |
| Convention | United Nation’s Framework Convention on Climate Change |
| COP | Conference of the Parties |
| CPUC | California Public Utilities Commission |
| CTC | California Transportation Commission |
| CTR | Commute Trip Reduction |
| DOF | Department of Finance |
| DWR | Department of Water Resources |
| EMFAC | Emission Factor Model |
| EPA | Environmental Protection Agency |
| EV | Electric Vehicle |
| FED | Functional Equivalent Document |
| GCC | Global Climate Change |
| Gg | Gigagram |
| GHGA | Greenhouse Gas Analysis |
| GO-Biz | Governor’s Office of Business and Economic Development |
| gpd | Gallons Per Day |
| gpm | Gallons Per Minute |
| GWP | Global Warming Potential |
| H ₂ O | Water |
| HFC | Hydrofluorocarbons |
| HDT | Heavy-Duty Trucks |
| HFC-23 | Fluoroform |
| HFC-134a | 1,1,1,2-tetrafluoroethane |
| HFC-152a | 1,1-difluoroethane |
| HHDT | Heavy-Heavy-Duty Trucks |
| hp | Horsepower |
| IBANK | California Infrastructure and Economic Development Bank |
| IPCC | Intergovernmental Panel on Climate Change |
| IRP | Integrated Resource Planning |
| ISO | Independent System Operator |
| ITE | Institute of Transportation Engineers |

| | |
|-------------------------|---|
| kWh | Kilowatt Hours |
| lbs | Pounds |
| LBNL | Lawrence Berkeley National Laboratory |
| LCA | Life-Cycle Analysis |
| LCD | Liquid Crystal Display |
| LCFS | Low Carbon Fuel Standard or Executive Order S-01-07 |
| LDA | Light-Duty Auto |
| LDT1/LDT2 | Light-Duty Trucks |
| LEED | Leadership in Energy and Environmental Design |
| LEV III | Low-Emission Vehicle |
| LHDT1/LHDT2 | Light-Heavy-Duty Trucks |
| LULUCF | Land-Use, Land-Use Change and Forestry |
| MARB/IPA | March Air Reserve Base/Inland Port Airport |
| MCY | Motorcycles |
| MD | Medium Duty |
| MDT | Medium-Duty Trucks |
| MDV | Medium-Duty Vehicles |
| MHDT | Medium-Heavy-Duty Trucks |
| MMR | Mandatory Reporting Rule |
| MMTCO _{2e} | Million Metric Ton of Carbon Dioxide Equivalent |
| mpg | Miles Per Gallon |
| MPOs | Metropolitan Planning Organizations |
| MMTCO _{2e} /yr | Million Metric Ton of Carbon Dioxide Equivalent Per Year |
| MT/yr | Metric Tons Per Year |
| MTCO _{2e} | Metric Ton of Carbon Dioxide Equivalent |
| MTCO _{2e} /yr | Metric Ton of Carbon Dioxide Equivalent Per Year |
| MW | Megawatts |
| MWh | Megawatts Per Hour |
| MWELO | California Department of Water Resources' Model Water Efficient |
| N ₂ O | Nitrous Oxide |
| NDC | Nationally Determined Contributions |
| NF ₃ | Nitrogen Trifluoride |
| NHTSA | National Highway Traffic Safety Administration |
| NIOSH | National Institute for Occupational Safety and Health |
| NO _x | Nitrogen Oxides |
| Non-Annex I | Developing Nations |
| OAL | Office of Administrative Law |

| | |
|-----------------|---|
| OPR | Office of Planning and Research |
| PFC | Perfluorocarbons |
| ppb | Parts Per Billion |
| ppm | Parts Per Million |
| ppt | Parts Per Trillion |
| Project | First March Logistics |
| PVCC SP | Perris Valley Commerce Center Specific Plan |
| PVCC SP EIR | <i>Perris Valley Commerce Center Specific Plan Environmental Impact Report SCH No. 2009081086</i> |
| RMC | Riverside Municipal Code |
| RTP | Regional Transportation Plan |
| SAFE | Safer Affordable Fuel-Efficient Vehicles Rule |
| SB | Senate Bill |
| SB 32 | California Global Warming Solutions Act of 2006 |
| SB 375 | Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies |
| SB 1078 | Renewable Portfolio Standards |
| SB 1368 | Statewide Retail Provider Emissions Performance Standards |
| SCAB | South Coast Air Basin |
| SCAG | Southern California Association of Governments |
| SCAQMD | South Coast Air Quality Management District |
| SCE | Southern California Edison |
| Scoping Plan | California Air Resources Board Climate Change Scoping Plan |
| SCS | Sustainable Communities Strategy |
| sf | Square Feet |
| SF ₆ | Sulfur Hexafluoride |
| SGC | Strategic Growth Council |
| SHGC | Solar Heat Gain Coefficient |
| SLPS | Short-Lived Climate Pollutant Strategy |
| SP | Service Population |
| SWCRB | State Water Resources Control Board |
| TA | <i>First March Logistics (DPR20-00004) Traffic Analysis</i> |
| TDM | Transportation Demand Measures |
| Title 20 | Appliance Energy Efficiency Standards |
| Title 24 | California Building Code |
| U.N. | United Nations |
| U.S. | United States |

| | |
|---------|--|
| UNFCCC | United Nations' Framework Convention on Climate Change |
| URBEMIS | Urban Emissions |
| UTR | Utility Tractors |
| VFP | Vehicle Fueling Positions |
| VIS | Voluntary Interindustry Commerce Solutions |
| VMT | Vehicle Miles Traveled |
| WCI | Western Climate Initiative |
| WRCOG | Western Riverside Council of Governments |
| WRI | World Resources Institute |
| ZE/NZE | Zero and Near-Zero Emissions |
| ZEV | Zero-Emissions Vehicles |

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *First March Logistics Greenhouse Gas Analysis* (GHGA) is summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines* (CEQA Guidelines (1)). Table ES-1 shows the findings of significance for potential greenhouse gas (GHG) impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

| Analysis | Report Section | Significance Findings | |
|--|----------------|--------------------------------|------------------------------------|
| | | Unmitigated | Mitigated |
| GHG Impact #1: Would the Project generate GHG emissions either directly or indirectly, that may have a significant impact on the environment? | 3.7 | <i>Potentially Significant</i> | <i>Significant and Unavoidable</i> |
| GHG Impact #2: Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs? | 3.7 | <i>Less Than Significant</i> | <i>n/a</i> |

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the State of California and the South Coast Air Quality Management District (SCAQMD) aimed at the reduction of air pollutant emissions. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of GHG emissions include:

- Global Warming Solutions Act of 2006 (Assembly Bill (AB) 32) (2).
- Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies (Senate Bill (SB) 375) (3).
- Pavley Fuel Efficiency Standards (AB 1493). Establishes fuel efficiency ratings for new vehicles (4).
- California Building Code (Title 24 California Code of Regulations (CCR)) and CALGreen standards. Establishes energy efficiency requirements for new construction (5).
- Appliance Energy Efficiency Standards (Title 20 CCR). Establishes energy efficiency requirements for appliances (6).
- Low Carbon Fuel Standard (LCFS). Requires carbon content of fuel sold in California to be 10 percent (%) less by 2020 (7).
- California Water Conservation in Landscaping Act of 2006 (AB 1881). Requires local agencies to adopt the Department of Water Resources updated Water Efficient Landscape Ordinance or

equivalent by January 1, 2010, to ensure efficient landscapes in new development and reduced water waste in existing landscapes (8).

- Statewide Retail Provider Emissions Performance Standards (SB 1368). Requires energy generators to achieve performance standards for GHG emissions (9).
- Renewable Portfolio Standards (SB 1078 – also referred to as RPS). Requires electric corporations to increase the amount of energy obtained from eligible renewable energy resources to 20% by 2010 and 33% by 2020 (10).
- California Global Warming Solutions Act of 2006 (SB 32). Requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15 (11).

Promulgated regulations that will affect the Project’s emissions are accounted for in the Project’s GHG calculations provided in this report. In particular, AB 1493, LCFS, and RPS, and therefore are accounted for in the Project’s emission calculations.

ES.3 PERRIS VALLEY COMMERCE CENTER SPECIFIC PLAN ENVIRONMENTAL IMPACT REPORT (PVCC SP EIR) MITIGATION MEASURES (MM)

The applicable PVCC SP EIR MM for air quality are shown below and are required for the Project. Additionally, these select measures, as disclosed in the EIR, would also reduce GHG emissions. As a conservative measure, to provide a worst-case disclosure of the Project’s impacts, and since specific reductions from these measures may be difficult to quantify, no reduction in emissions has been assumed from the following measures.

MM AIR 11

Signage shall be posted at loading docks and all entrances to loading areas prohibiting all on-site truck idling in excess of five minutes.

MM AIR 13

In order to promote alternative fuels, and help support “clean” truck fleets, the developer/successor-in-interest shall provide building occupants and businesses with information related to SCAQMD’s Carl Moyer Program, or other state programs that restrict operations to “clean” trucks, such as 2007 or newer model year or 2010 compliant vehicles and information including, but not limited to, the health effect of diesel particulates, benefits of reduced idling time, CARB regulations, and importance of not parking in residential areas. If trucks older than 2007 model year would be used at a facility with three or more dock-high doors, the developer/successor-in-interest shall require, within one year of signing a lease, future tenants to apply in good-faith for funding for diesel truck replacement/retrofit through grant programs such as the Carl Moyer, Prop 1B, VIP [On-road Heavy Duty Voucher Incentive Program], HVIP [Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project], and SOON [Surplus Off-Road Opt-in for Nitrogen Oxides (NO_x)] funding programs, as identified on SCAQMD’s website (<http://www.aqmd.gov>). Tenants would be required to use those funds, if awarded.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of

this MM.

MM AIR 14

Each implementing development project shall designate parking spaces for high-occupancy vehicles and provide larger parking spaces to accommodate vans used for ride sharing. Proof of compliance would be required prior to the issuance of occupancy permits.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM AIR 19

In order to reduce energy consumption from the individual implementing development projects, applicable plans (e.g., electrical plans, improvement maps) submitted to the City shall include the installation of energy-efficient street lighting throughout the Project sites. These plans shall be reviewed and approved by the applicable City Department (e.g., City of Perris' Building Division) prior to conveyance of applicable streets.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM AIR 20

Each implementing development project shall be encouraged to implement, at a minimum, an increase in each building's energy efficiency 15% beyond Title 24, and reduce indoor water use by 25%. All reductions would be documented through a checklist to be submitted prior to issuance of building permits for the implementing development project with building plans and calculations.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

ES.4 ADDITIONAL MMS

The following additional mitigation measures are required to reduce the Project's GHG emissions.

MM GHG-1

Prior to the issuance of each building permit, the Project Applicant proponent and its contractors shall provide plans and specifications to the City of Perris Building Department that demonstrate that electrical service is provided to each of the areas in the vicinity of the building that are to be landscaped in order that electrical equipment may be used for landscape maintenance.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM GHG-2

All landscaping equipment (e.g., leaf blower) used for property management shall be electric-powered only. The property manager/facility owner shall provide documentation (e.g., purchase, rental, and/or services agreement) to the City of Perris Building Department to verify, to the City's satisfaction, that all landscaping equipment utilized will be electric-powered.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM GHG-3

Once constructed, the Project Applicant shall ensure that all building tenants in the warehouse portion of the Project shall utilize only electric or natural gas service yard trucks (hostlers), pallet jacks and forklifts, and other onsite equipment, through requirements in the lease agreements. Electric-powered service yard trucks (hostlers), pallet jacks and forklifts, and other onsite equipment shall also be required instead of diesel-powered equipment, if technically feasible. Yard trucks may be diesel fueled in lieu of electrically or natural gas fueled provided such yard trucks are at least compliant with California Air Resources Board (CARB) 2010 standards for on-road vehicles or CARB Tier 4 compliant for off-road vehicles.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM GHG-4

Upon occupancy, the facility operator for the warehouse portion of the Project shall require tenants that do not already operate 2010 and newer trucks to apply in good faith for funding to replace/retrofit their trucks, such as Carl Moyer, VIP, Prop 1B, SmartWay Finance, or other similar funds. If awarded, the tenant shall be required to accept and use the funding. Tenants shall be encouraged to consider the use of alternative fueled trucks as well as new or retrofitted diesel trucks. Tenants shall also be encouraged to become SmartWay Partners, if eligible. This measure shall not apply to trucks that are not owned or operated by the facility operator or facility tenants since it would be infeasible to prohibit access to the site by any truck that is otherwise legal to operate on California roads and highways. The facility operator shall provide an annual report to the City of Perris Planning Division. The report shall: one, list each engine design; two, describe the effort made by each tenant to obtain funding to upgrade their fleet and the results of that effort; and three, describe the change in each fleet composition from the prior year.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM GHG-5

Tenants who employ 250 or more employees on a full- or part-time basis shall comply with SCAQMD Rule 2202, On-Road Motor Vehicle Mitigation Options. The purpose of this rule is to provide employees with a menu of options to reduce employee commute vehicle emissions.

Tenants with less than 250 employees or tenants with 250 or more employees who are exempt from SCAQMD Rule 2202 (as stated in the Rule) shall either (a) join with a tenant who is implementing a program in accordance with Rule 2202 or (b) implement an emission reduction program similar to Rule 2202 with annual reporting of actions and results to the City of Perris. The tenant-implemented program would include, but not be limited to the following:

- Appoint a Transportation Demand Management (TDM) coordinator who would promote the TDM program, activities and features to all employees.
- Create and maintain a “commuter club” to manage subsidies or incentives for employees who carpool, vanpool, bicycle, walk, or take transit to work.
- Inform employees of public transit and commuting services available to them (e.g., social media, signage).
- Provide on-site transit pass sales and discounted transit passes.
- Guarantee a ride home.
- Offer shuttle service to and from public transit and commercial areas/food establishments, if warranted.
- Coordinate with the Riverside Transit Agency and employers in the surrounding area to maximize the benefits of the TDM program.
- Implement a commute trip reduction (CTR) program to provide employees assistance in using alternative modes of travel and provide incentives to encourage employee usage. The CTR program would be a multi-strategy program that could include the following individual measures:
 - Carpooling encouragement
 - Ride-matching assistance
 - Preferential carpool parking
 - Flexible work schedules for carpools
 - Half-time transportation coordinator
 - New employee orientation of trip reduction and alternative travel mode options
 - Vanpool assistance
 - Bicycle end-trip facilities (parking and lockers)

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM GHG-6

Prior to the issuance of a building permit, the Project Applicant shall provide evidence to the City of Perris Building Division that loading docks are designed to be compatible with SmartWay trucks.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM GHG-7

Upon occupancy and annually thereafter, the facility operator shall provide information to all tenants, with instructions that the information shall be provided to employees and truck drivers as appropriate, regarding:

- Building energy efficiency, solid waste reduction, recycling, and water conservation.
- Vehicle GHG emissions, electric vehicle (EV) charging availability, and alternate transportation opportunities for commuting.
- Participation in the Voluntary Interindustry Commerce Solutions (VICS) “Empty Miles” program to improve goods trucking efficiencies.
- Health effects of diesel particulates, State regulations limiting truck idling time, and the benefits of minimized idling.
- The importance of minimizing traffic, noise, and air pollutant impacts to any residences in the Project vicinity.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM GHG-8

Prior to issuance of a building permit, the Project Applicant shall provide the City of Perris Building Division with project specifications, drawings, and calculations that demonstrate that main electrical supply lines and panels have been sized to support heavy truck charging facilities when these trucks become available. The calculations shall be based on reasonable predictions from currently available truck manufacturer’s data. Electrical system upgrades that exceed reasonable costs shall not be required.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

MM GHG-9

The buildings shall be constructed as certified Leadership in Energy and Environmental Design (LEED) Silver Level and implement the following, voluntary provisions of the California Green Building Standards Code (CALGreen). The project applicant/developer(s) shall provide documentation (e.g., building plans) of implementation of the applicable voluntary measures to the City of Perris Building Department prior to the issuance of building permits.

- Design the proposed parking areas to provide parking for low-emitting, fuel-efficient, and carpool/van vehicles. At minimum, the number of preferential parking spaces shall equal the Tier 2 Nonresidential Voluntary Measures of the California Green Building Standards Code, Section A5.106.5.1.2.
- Include solar panels to offset the office energy use.
- Design the proposed parking areas to provide EV charging stations. At minimum, the number of EV charging stations shall equal the Tier 2 Nonresidential Voluntary Measures of the California Green Building Standards Code, Section A5.106.5.3.2.

For purposes of analysis, the emissions presented in this GHGA do not reflect implementation of this MM.

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1 INTRODUCTION

This report presents the results of the GHGA prepared by Urban Crossroads, Inc., for the proposed First March Logistics (Project). The purpose of this GHGA is to evaluate Project-related construction and operational emissions and determine the level of GHG impacts as a result of constructing and operating the Project.

1.1 SITE LOCATION

The proposed First March Logistics site is located north of Nandina Avenue and west of Natwar Lane, within the City of Perris' *Perris Valley Commerce Center Specific Plan (PVCC SP)* as shown on Exhibit 1-A. The March Air Reserve Base/Inland Port Airport (MARB/IPA) is located approximately 0.23 miles east of the Project site boundary.

The Project is located adjacent to existing industrial and commercial land use with residential homes located to the south and southeast of the Project site. According to the PVCC SP, the Project site is designated as a Light Industrial and General Industrial uses. The Light Industrial designation provides for light industrial uses and related activities including manufacturing, research, warehouse and distribution, assembly of non-hazardous materials and retail related to manufacturing. The General Industrial designation provides for the development of basic industrial uses which may support a wide range of manufacturing and non-manufacturing uses, from large-scale warehouse and warehouse/distribution facilities to outdoor industrial activities (12).

1.2 PROJECT DESCRIPTION

The Project is proposed to consist of a single 419,034 square foot (sf) warehouse building (Building 1) and a second 139,971 sf warehouse building (Building 2), as shown on Exhibit 1-B¹. Building 1 (Phase 1) is anticipated to be constructed by the year 2023 while Project Buildout (Phase 1 + 2) is anticipated by year 2025. The proposed Project land use is consistent with the PVCC SP Light Industrial and General Industrial land use designation.

It is expected that the Project business operations would primarily be conducted within the enclosed buildings, except for traffic movement, parking, as well as loading and unloading of trucks at designated loading bays. This analysis includes a conservative assumption of on-site Project-related emission sources for potential future tenants, including architectural coatings, consumer products, landscape maintenance equipment, natural gas, electricity, mobile operations, and on-site cargo handling equipment. This analysis is intended to describe GHG impacts associated with the expected typical operational activities at the Project site. To present a conservative approach, this report assumes the Project would operate 24-hours daily for seven days per week.

¹ At the time the underlying modeling was conducted for this report, the site plan included a slightly larger total square footage, including a 419,034-sf warehouse building (Building 1) and a second 139,971-sf warehouse building (Building 2). The emissions calculations are based on the trip generation which is also based on the slightly larger building square footages. As such, the emissions analyzed in this report may be slightly overstated and represent a conservative estimate for analytical purposes.

EXHIBIT 1-A: LOCATION MAP

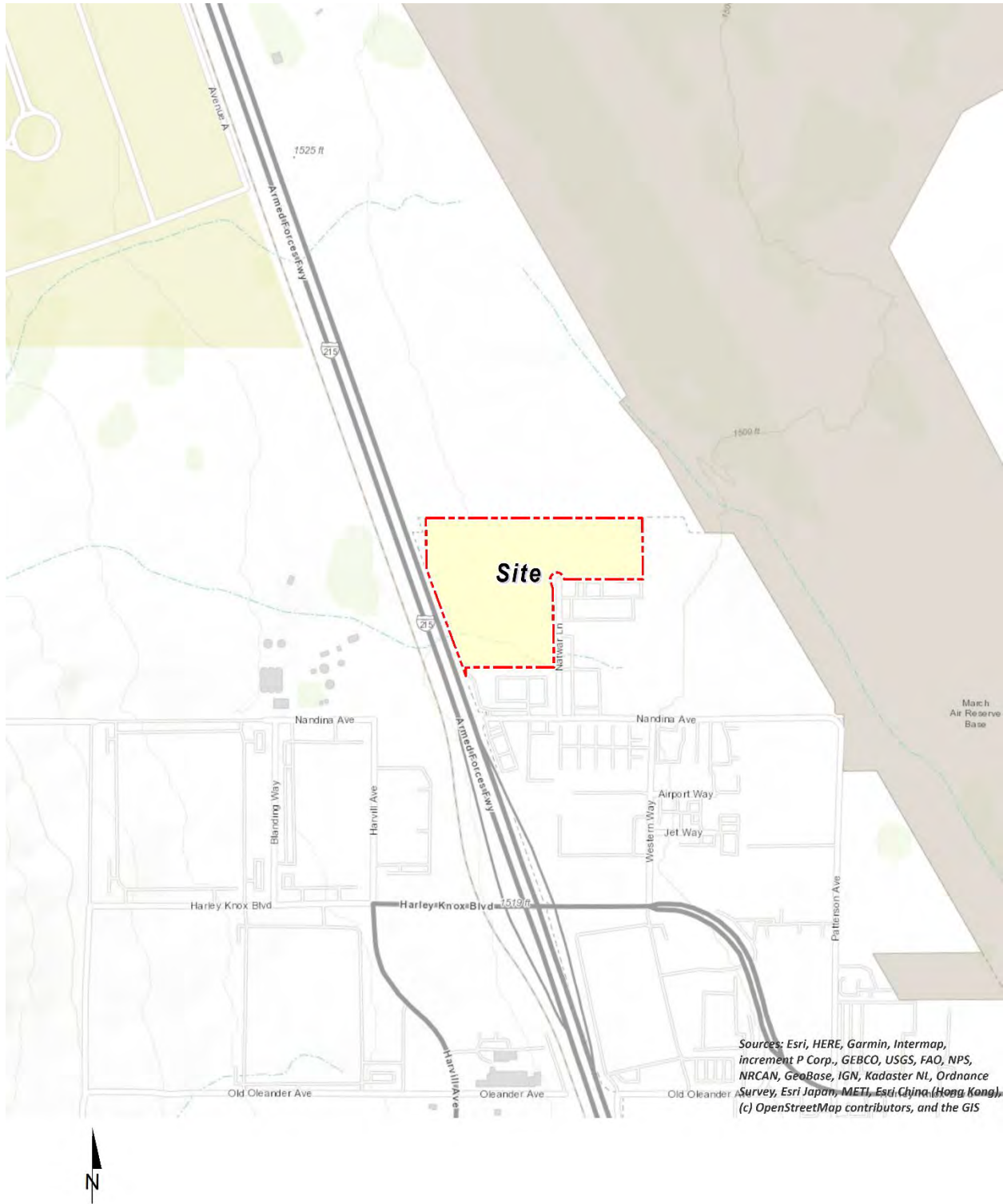
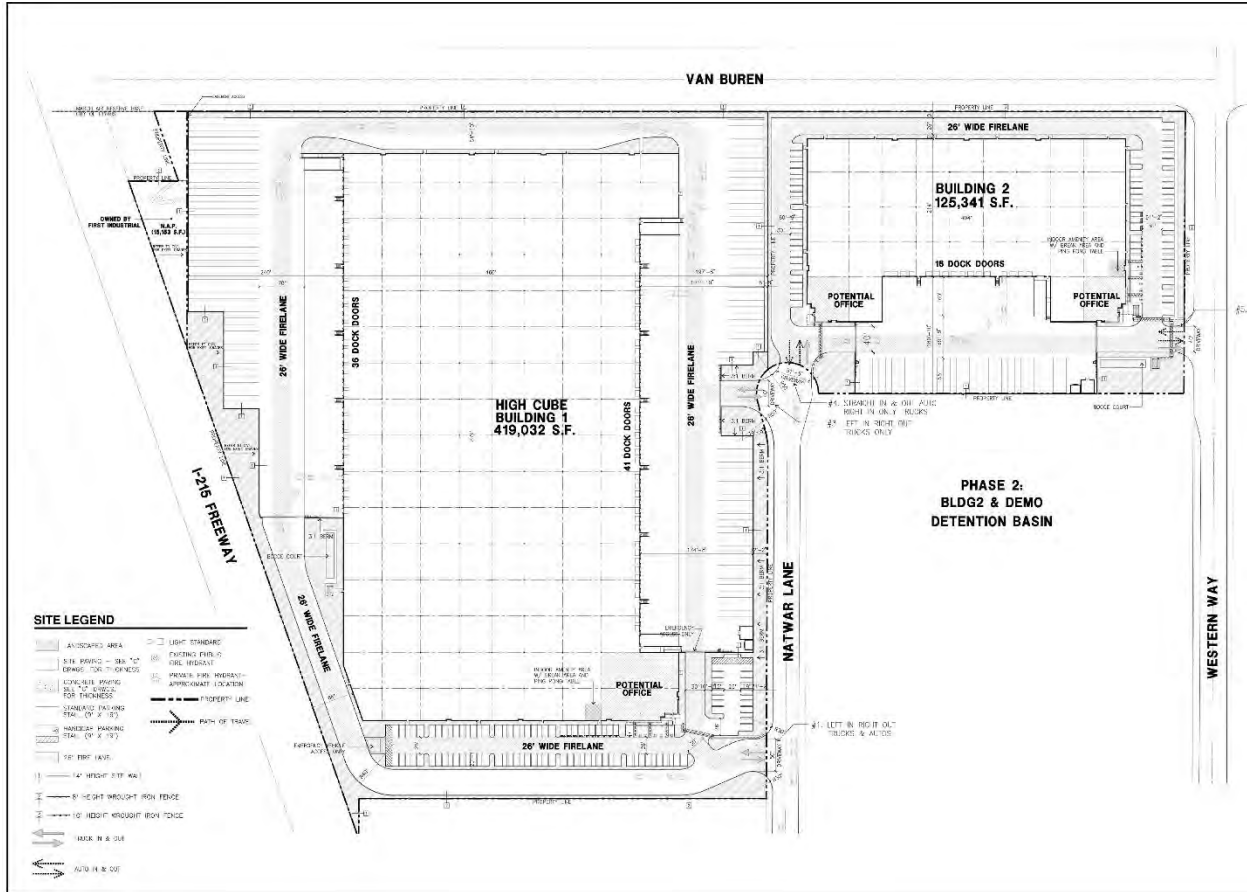
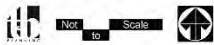


EXHIBIT 1-B: SITE PLAN



Source(s): HPA (12-12-2022)



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2 CLIMATE CHANGE SETTING

2.1 INTRODUCTION TO GLOBAL CLIMATE CHANGE (GCC)

GCC is defined as the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project like the proposed Project evaluated in this GHGA cannot generate enough GHG emissions to affect a discernible change in global climate. However, the proposed Project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on GCC. Because these changes may have serious environmental consequences, Section 3.0 will evaluate the potential for the proposed Project to have a significant effect upon the environment as a result of its potential contribution to the greenhouse effect.

2.2 GLOBAL CLIMATE CHANGE DEFINED

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation, and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO₂, N₂O, CH₄, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radioactive heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic activity. Without the natural GHG effect, the earth's average temperature would be approximately 61 degrees Fahrenheit (°F) cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

2.3 GHGs

2.3.1 GHGs AND HEALTH EFFECTS

GHGs trap heat in the atmosphere, creating a GHG effect that results in global warming and climate change. Many gases demonstrate these properties and as discussed in Table 2-1. For the purposes of this analysis, emissions of CO₂, CH₄, and N₂O were evaluated (see Table 3-1 later in this report) because these gases are the primary contributors to GCC from development projects.

Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

TABLE 2-1: GHGS

| GHGs | Description | Sources | Health Effects |
|-------|---|---|--|
| Water | <p>Water is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered to be a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. Climate feedback is an indirect, or secondary, change, either positive or negative, that occurs within the climate system in response to a forcing mechanism. The feedback loop in which water is involved is critically important to projecting future climate change.</p> <p>As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to ‘hold’ more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a “positive feedback loop.” The extent to which this positive feedback loop would continue is</p> | <p>The main source of water vapor is evaporation from the oceans (approximately 85%). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from sea ice and snow, and transpiration from plant leaves.</p> | <p>There are no known direct health effects related to water vapor at this time. It should be noted however that when some pollutants react with water vapor, the reaction forms a transport mechanism for some of these pollutants to enter the human body through water vapor.</p> |

| GHGs | Description | Sources | Health Effects |
|-----------------------|--|--|---|
| | <p>unknown as there are also dynamics that hold the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it would eventually condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the earth's surface and heat it up) (13).</p> | | |
| <p>CO₂</p> | <p>CO₂ is an odorless and colorless GHG. Since the industrial revolution began in the mid-1700s, the sort of human activity that increases GHG emissions has increased dramatically in scale and distribution. Data from the past 50 years suggests a corollary increase in levels and concentrations. As an example, prior to the industrial revolution, CO₂ concentrations were fairly stable at 280 parts per million (ppm). Today, they are around 370 ppm, an increase of more than 30%. Left unchecked, the concentration of CO₂ in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources (14).</p> | <p>CO₂ is emitted from natural and manmade sources. Natural sources include: the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources include: the burning of coal, oil, natural gas, and wood. CO₂ is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks (15).</p> | <p>Outdoor levels of CO₂ are not high enough to result in negative health effects.</p> <p>According to the National Institute for Occupational Safety and Health (NIOSH) high concentrations of CO₂ can result in health effects such as: headaches, dizziness, restlessness, difficulty breathing, sweating, increased heart rate, increased cardiac output, increased blood pressure, coma, asphyxia, and/or convulsions. It should be noted that current concentrations of CO₂ in the earth's atmosphere are estimated to be approximately 370 ppm, the actual reference exposure level (level at which adverse health effects typically occur) is at exposure levels of 5,000 ppm averaged over 10 hours in a 40-hour workweek and short-term reference exposure levels of 30,000 ppm averaged over a 15 minute period (16).</p> |

| GHGs | Description | Sources | Health Effects |
|------------------|---|--|---|
| CH ₄ | CH ₄ is an extremely effective absorber of radiation, although its atmospheric concentration is less than CO ₂ and its lifetime in the atmosphere is brief (10-12 years), compared to other GHGs. | CH ₄ has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of CH ₄ . Other anthropogenic sources include fossil-fuel combustion and biomass burning (17). | CH ₄ is extremely reactive with oxidizers, halogens, and other halogen-containing compounds. Exposure to elevated levels of CH ₄ can cause asphyxiation, loss of consciousness, headache and dizziness, nausea and vomiting, weakness, loss of coordination, and an increased breathing rate. |
| N ₂ O | N ₂ O, also known as laughing gas, is a colorless GHG. Concentrations of N ₂ O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration was 314 parts per billion (ppb). | N ₂ O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is used as an aerosol spray propellant, i.e., in whipped cream | N ₂ O can cause dizziness, euphoria, and sometimes slight hallucinations. In small doses, it is considered harmless. However, in some cases, heavy and extended use can cause Olney's Lesions (brain damage) (18). |

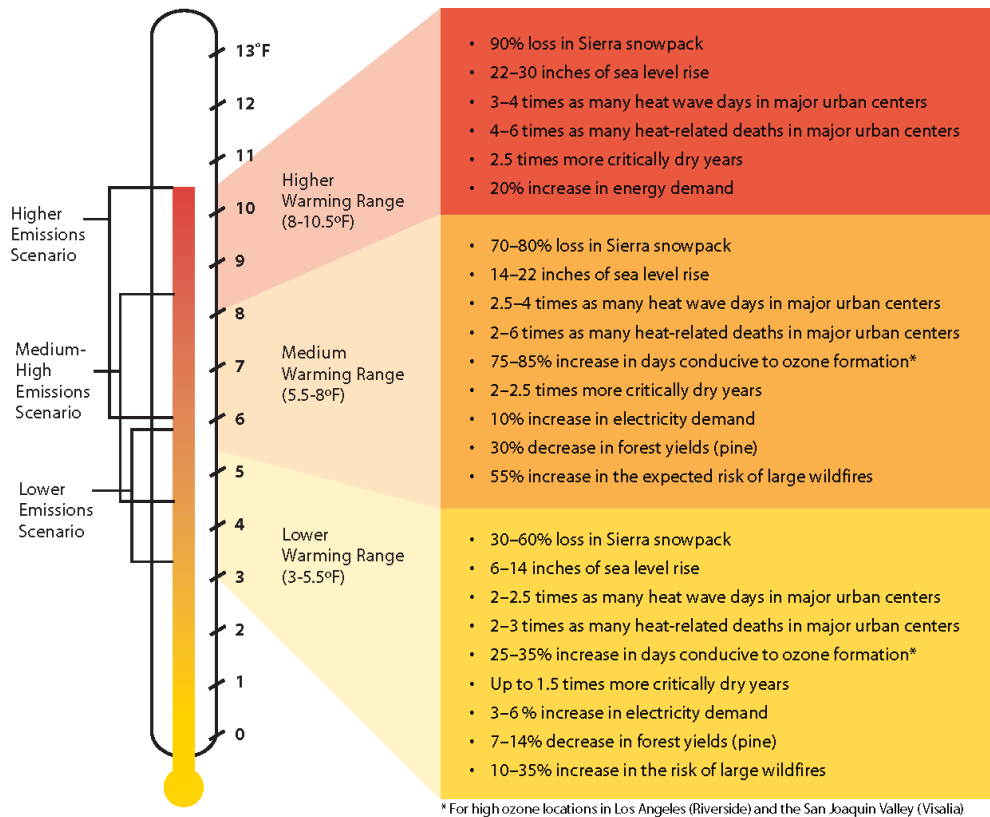
| GHGs | Description | Sources | Health Effects |
|-----------------------------------|---|---|--|
| | | <p>bottles. It is also used in potato chip bags to keep chips fresh. It is used in rocket engines and in race cars. N₂O can be transported into the stratosphere, be deposited on the earth's surface, and be converted to other compounds by chemical reaction (18).</p> | |
| <p>Chlorofluorocarbons (CFCs)</p> | <p>CFCs are gases formed synthetically by replacing all hydrogen atoms in CH₄ or ethane (C₂H₆) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble and chemically unreactive in the troposphere (the level of air at the earth's surface).</p> | <p>CFCs have no natural source but were first synthesized in 1928. They were used for refrigerants, aerosol propellants and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and was extremely successful, so much so that levels of the major CFCs are now remaining steady or declining. However, their long atmospheric lifetimes mean that some of the CFCs would remain in the atmosphere for over 100 years (19).</p> | <p>In confined indoor locations, working with CFC-113 or other CFCs is thought to result in death by cardiac arrhythmia (heart frequency too high or too low) or asphyxiation.</p> |

| GHGs | Description | Sources | Health Effects |
|-----------------|---|--|---|
| HFCs | <p>HFCs are synthetic, man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential (GWP). The HFCs with the largest measured atmospheric abundances are (in order), Fluoroform (HFC-23), 1,1,1,2-tetrafluoroethane (HFC-134a), and 1,1-difluoroethane (HFC-152a). Prior to 1990, the only significant emissions were of HFC-23. HCF-134a emissions are increasing due to its use as a refrigerant.</p> | <p>HFCs are manmade for applications such as automobile air conditioners and refrigerants.</p> | <p>No health effects are known to result from exposure to HFCs.</p> |
| PFCs | <p>PFCs have stable molecular structures and do not break down through chemical processes in the lower atmosphere. High-energy ultraviolet rays, which occur about 60 kilometers above earth's surface, are able to destroy the compounds. Because of this, PFCs have exceptionally long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF₄) and hexafluoroethane (C₂F₆). The EPA estimates that concentrations of CF₄ in the atmosphere are over 70 parts per trillion (ppt).</p> | <p>The two main sources of PFCs are primary aluminum production and semiconductor manufacture.</p> | <p>No health effects are known to result from exposure to PFCs.</p> |
| SF ₆ | <p>SF₆ is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated (23,900) (20). The EPA indicates that concentrations in the 1990s were about 4 ppt.</p> | <p>SF₆ is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.</p> | <p>In high concentrations in confined areas, the gas presents the hazard of suffocation because it displaces the oxygen needed for breathing.</p> |

| GHGs | Description | Sources | Health Effects |
|---|--|--|---|
| Nitrogen Trifluoride (NF ₃) | NF ₃ is a colorless gas with a distinctly moldy odor. The World Resources Institute (WRI) indicates that NF ₃ has a 100-year GWP of 17,200 (21). | NF ₃ is used in industrial processes and is produced in the manufacturing of semiconductors, Liquid Crystal Display (LCD) panels, types of solar panels, and chemical lasers. | Long-term or repeated exposure may affect the liver and kidneys and may cause fluorosis (22). |

The potential health effects related directly to the emissions of CO₂, CH₄, and N₂O as they relate to development projects such as the proposed Project are still being debated in the scientific community. Their cumulative effects to GCC have the potential to cause adverse effects to human health. Increases in Earth’s ambient temperatures would result in more intense heat waves, causing more heat-related deaths. Scientists also purport those higher ambient temperatures would increase disease survival rates and result in more widespread disease. Climate change would likely cause shifts in weather patterns, potentially resulting in devastating droughts and food shortages in some areas (23). Exhibit 2-A presents the potential impacts of global warming (24).

EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990)



Source: Barbara H. Allen-Diaz. "Climate change affects us all." University of California, Agriculture and Natural Resources, 2009.

2.4 GLOBAL WARMING POTENTIAL

GHGs have varying GWP values. GWP of a GHG indicates the amount of warming a gas cause over a given period of time and represents the potential of a gas to trap heat in the atmosphere. CO₂ is utilized as the reference gas for GWP, and thus has a GWP of 1. CO₂ equivalent (CO₂e) is a term used for describing the difference GHGs in a common unit. CO₂e signifies the amount of CO₂ which would have the equivalent GWP.

The atmospheric lifetime and GWP of selected GHGs are summarized at Table 2-2. As shown in the table below, GWP for the 2nd Assessment Report, the Intergovernmental Panel on Climate Change (IPCC)'s scientific and socio-economic assessment on climate change, range from 1 for CO₂ to 23,900 for SF₆ and GWP for the IPCC's 5th Assessment Report range from 1 for CO₂ to 23,500 for SF₆ (25).

TABLE 2-2: GWP AND ATMOSPHERIC LIFETIME OF SELECT GHGS

| Gas | Atmospheric Lifetime (years) | GWP (100-year time horizon) | |
|------------------|------------------------------|-----------------------------------|-----------------------------------|
| | | 2 nd Assessment Report | 5 th Assessment Report |
| CO ₂ | See* | 1 | 1 |
| CH ₄ | 12 .4 | 21 | 28 |
| N ₂ O | 121 | 310 | 265 |
| HFC-23 | 222 | 11,700 | 12,400 |
| HFC-134a | 13.4 | 1,300 | 1,300 |
| HFC-152a | 1.5 | 140 | 138 |
| SF ₆ | 3,200 | 23,900 | 23,500 |

*As per Appendix 8.A. of IPCC's 5th Assessment Report, no single lifetime can be given.

Source: Table 2.14 of the IPCC Fourth Assessment Report, 2007

2.5 GHG EMISSIONS INVENTORIES

2.5.1 GLOBAL

Worldwide anthropogenic GHG emissions are tracked by the IPCC for industrialized nations (referred to as Annex I) and developing nations (referred to as Non-Annex I). Human GHG emissions data for Annex I nations are available through 2018. Based on the latest available data, the sum of these emissions totaled approximately 28,768,440 gigagram (Gg) CO₂e² (26) (27) as summarized on Table 2-3.

² The global emissions are the sum of Annex I and non-Annex I countries, without counting Land-Use, Land-Use Change and Forestry (LULUCF). For countries without 2018 data, the United Nations' Framework Convention on Climate Change (UNFCCC) data for the most recent year were used U.N. Framework Convention on Climate Change, "Annex I Parties – GHG total without LULUCF," The most recent GHG emissions for China and India are from 2014 and 2010, respectively.

2.5.2 UNITED STATES

As noted in Table 2-3, the United States, as a single country, was the number two producer of GHG emissions in 2018.

TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION ³

| Emitting Countries | GHG Emissions (Gg CO ₂ e) |
|--------------------------------------|--------------------------------------|
| China | 12,300,200 |
| United States | 6,676,650 |
| European Union (28-member countries) | 4,232,274 |
| Russian Federation | 2,220,123 |
| India | 2,100,850 |
| Japan | 1,238,343 |
| Total | 28,768,440 |

2.5.3 STATE OF CALIFORNIA

California has significantly slowed the rate of growth of GHG emissions due to the implementation of energy efficiency programs as well as adoption of strict emission controls but is still a substantial contributor to the United States (U.S.) emissions inventory total (28). The California Air Resource Board (CARB) compiles GHG inventories for the State of California. Based upon the 2020 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2019 GHG emissions period, California emitted an average 418.1 million metric tons of CO₂e per year (MMTCO₂e/yr) or 418,100 Gg CO₂e (6.26% of the total United States GHG emissions) (29).

2.6 EFFECTS OF CLIMATE CHANGE IN CALIFORNIA

2.6.1 PUBLIC HEALTH

Higher temperatures may increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation could increase from 25 to 35% under the lower warming range to 75 to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances, depending on wind conditions. Based on *Our Changing Climate Assessing the Risks to California by the California Climate Change Center*, large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced (30).

In addition, under the higher warming range scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a

³ Used <http://unfccc.int> data for Annex I countries. Consulted the CAIT Climate Data Explorer in <https://www.climatewatchdata.org> site to reference Non-Annex I countries of China and India.

significant increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures could increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

2.6.2 WATER RESOURCES

A vast network of man-made reservoirs and aqueducts captures and transports water throughout the state from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snowpack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snowpack, increasing the risk of summer water shortages.

If temperatures continue to increase, more precipitation could fall as rain instead of snow, and the snow that does fall could melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90%. Under the lower warming range scenario, snowpack losses could be only half as large as those possible if temperatures were to rise to the higher warming range. How much snowpack could be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snowpack could pose challenges to water managers and hamper hydropower generation. It could also adversely affect winter tourism. Under the lower warming range, the ski season at lower elevations could be reduced by as much as a month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing and snowboarding.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater could degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta – a major fresh water supply.

2.6.3 AGRICULTURE

Increased temperatures could cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. First, California farmers could possibly lose as much as 25% of the water supply needed. Although higher CO₂ levels can stimulate plant production and increase plant water-use efficiency, California's farmers could face greater water demand for crops and a less reliable water supply as temperatures rise. Crop growth and development could change, as could the intensity and frequency of pest and disease outbreaks. Rising temperatures could aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures could worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits, and nuts.

In addition, continued GCC could shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion could occur in many species while range contractions may be less likely in rapidly evolving species with significant populations already established. Should range contractions occur, new or different weed species could fill the emerging gaps. Continued GCC could alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

2.6.4 FORESTS AND LANDSCAPES

GCC has the potential to intensify the current threat to forests and landscapes by increasing the risk of wildfire and altering the distribution and character of natural vegetation. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks would not be uniform throughout the state. In contrast, wildfires in northern California could increase by up to 90% due to decreased precipitation.

Moreover, continued GCC has the potential to alter natural ecosystems and biological diversity within the state. For example, alpine and subalpine ecosystems could decline by as much as 60 to 80% by the end of the century as a result of increasing temperatures. The productivity of the state's forests has the potential to decrease as a result of GCC.

2.6.5 RISING SEA LEVELS

Rising sea levels, more intense coastal storms, and warmer water temperatures could increasingly threaten the state's coastal regions. Under the higher warming range scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate low-lying coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. Under the lower warming range scenario, sea level could rise 12-14 inches.

2.7 REGULATORY SETTING

2.7.1 INTERNATIONAL

Climate change is a global issue involving GHG emissions from all around the world; therefore, countries such as the ones discussed below have made an effort to reduce GHGs.

IPCC

In 1988, the United Nations (U.N.) and the World Meteorological Organization established the IPCC to assess the scientific, technical, and socioeconomic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

UNITED NATION'S FRAMEWORK CONVENTION ON CLIMATE CHANGE (UNFCCC)

On March 21, 1994, the U.S. joined a number of countries around the world in signing the Convention. Under the UNFCCC, governments gather and share information on GHG emissions, national policies, and best practices; launch national strategies for addressing GHG emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

INTERNATIONAL CLIMATE CHANGE TREATIES

The Kyoto Protocol is an international agreement linked to the UNFCCC. The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European community for reducing GHG emissions at an average of 5% against 1990 levels over the five-year period 2008–2012. The Convention (as discussed above) encouraged industrialized countries to stabilize emissions; however, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years; therefore, the Protocol places a heavier burden on developed nations under the principle of “common but differentiated responsibilities.”

In 2001, President George W. Bush indicated that he would not submit the treaty to the U.S. Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. In December 2009, international leaders met in Copenhagen to address the future of international climate change commitments post-Kyoto. No binding agreement was reached in Copenhagen; however, the UN Climate Change Committee identified the long-term goal of limiting the maximum global average temperature increase to no more than 2 degrees Celsius (°C) above pre-industrial levels, subject to a review in 2015. The Committee held additional meetings in Durban, South Africa in November 2011; Doha, Qatar in November 2012; and Warsaw, Poland in November 2013. The meetings gradually gained consensus among participants on individual climate change issues.

On September 23, 2014, more than 100 Heads of State and Government and leaders from the private sector and civil society met at the Climate Summit in New York hosted by the U.N. At the Summit, heads of government, business and civil society announced actions in areas that would have the greatest impact on reducing emissions, including climate finance, energy, transport, industry, agriculture, cities, forests, and building resilience.

Parties to the UNFCCC reached a landmark agreement on December 12, 2015, in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a four-year negotiating round, the new treaty ends the strict differentiation between developed and developing countries that characterized earlier efforts, replacing it with a common framework that commits all countries to put forward their best efforts and to strengthen them in the years ahead. This includes, for the first time, requirements that all parties report regularly on their emissions and implementation efforts and undergo international review.

The agreement and a companion decision by parties were the key outcomes of the conference, known as the 21st session of the UNFCCC Conference of the Parties (COP) 21. Together, the Paris Agreement and the accompanying COP decision:

- Reaffirm the goal of limiting global temperature increase well below 2°C, while urging efforts to limit the increase to 1.5 degrees;
- Establish binding commitments by all parties to make “nationally determined contributions” (NDCs), and to pursue domestic measures aimed at achieving them;
- Commit all countries to report regularly on their emissions and “progress made in implementing and achieving” their NDCs, and to undergo international review;
- Commit all countries to submit new NDCs every five years, with the clear expectation that they would “represent a progression” beyond previous ones;
- Reaffirm the binding obligations of developed countries under the UNFCCC to support the efforts of developing countries, while for the first time encouraging voluntary contributions by developing countries too;
- Extend the current goal of mobilizing \$100 billion a year in support by 2020 through 2025, with a new, higher goal to be set for the period after 2025;
- Extend a mechanism to address “loss and damage” resulting from climate change, which explicitly would not “involve or provide a basis for any liability or compensation;”
- Require parties engaging in international emissions trading to avoid “double counting;” and
- Call for a new mechanism, similar to the Clean Development Mechanism under the Kyoto Protocol, enabling emission reductions in one country to be counted toward another country’s NDC (C2ES 2015a) (31).

Following President Biden’s day one executive order, the United States officially rejoined the landmark Paris Agreement on February 19, 2021, positioning the country to once again be part of the global climate solution. Meanwhile, city, state, business, and civic leaders across the country and around the world have been ramping up efforts to drive the clean energy advances needed to meet the goals of the agreement and put the brakes on dangerous climate change.

2.7.2 NATIONAL

Prior to the last decade, there have been no concrete federal regulations of GHGs or major planning for climate change adaptation. The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG ENDANGERMENT

In *Massachusetts v. Environmental Protection Agency* 549 U.S. 497 (2007), decided on April 2, 2007, the United States Supreme Court (Supreme Court) found that four GHGs, including CO₂, are air pollutants subject to regulation under Section 202(a)(1) of the Clean Air Act (CAA). The Supreme Court held that the EPA Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned

decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under section 202(a) of the CAA:

- **Endangerment Finding:** The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs— CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆—in the atmosphere threaten the public health and welfare of current and future generations.
- **Cause or Contribute Finding:** The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed in the section “Clean Vehicles” below. After a lengthy legal challenge, the Supreme Court declined to review an Appeals Court ruling that upheld the EPA Administrator’s findings (32).

CLEAN VEHICLES

Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the U.S. On April 1, 2010, the EPA, and the Department of Transportation’s National Highway Traffic Safety Administration (NHTSA) announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the U.S.

The first phase of the national program applies to passenger cars, light-duty trucks, and medium-duty (MD) passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO₂ per mile, equivalent to 35.5 miles per gallon (mpg) if the automobile industry were to meet this CO₂ level solely through fuel economy improvements. Together, these standards would cut CO₂ emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). The EPA and the NHTSA issued final rules on a second-phase joint rulemaking establishing national standards for light-duty vehicles for model years 2017 through 2025 in August 2012. The new standards for model years 2017 through 2025 apply to passenger cars, light-duty trucks, and MD passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO₂ in model year 2025, which is equivalent to 54.5 mpg if achieved exclusively through fuel economy improvements.

The EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks (HDT) and buses on September 15, 2011, effective November 14, 2011. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20% reduction in CO₂ emissions and fuel consumption by the 2018 model year. For HDT and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10% reduction for gasoline vehicles and a 15% reduction for diesel vehicles by the 2018 model year (12 and 17% respectively if

accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10% reduction in fuel consumption and CO₂ emissions from the 2014 to 2018 model years.

On April 2, 2018, the EPA signed the Mid-term Evaluation Final Determination, which declared that the MY 2022-2025 GHG standards are not appropriate and should be revised (33). This Final Determination serves to initiate a notice to further consider appropriate standards for MY 2022-2025 light-duty vehicles. On August 2, 2018, the NHTSA in conjunction with the EPA, released a notice of proposed rulemaking, the *Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks* (SAFE Vehicles Rule). The SAFE Vehicles Rule was proposed to amend existing Corporate Average Fuel Economy (CAFE) and tailpipe CO₂ standards for passenger cars and light trucks and to establish new standards covering model years 2021 through 2026. As of March 31, 2020, the NHTSA and EPA finalized the SAFE Vehicle Rule which increased stringency of CAFE and CO₂ emissions standards by 1.5% each year through model year 2026 (34).

MANDATORY REPORTING OF GHGS

The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the EPA issued the Final Mandatory Reporting of GHGs Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the U.S. and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons per year (MT/yr) or more of GHG emissions are required to submit annual reports to the EPA.

NEW SOURCE REVIEW

The EPA issued a final rule on May 13, 2010, that establishes thresholds for GHGs that define when permits under the New Source Review Prevention of Significant Deterioration and Title V Operating Permit programs are required for new and existing industrial facilities. This final rule “tailors” the requirements of these CAA permitting programs to limit which facilities would be required to obtain Prevention of Significant Deterioration and Title V permits. In the preamble to the revisions to the Federal Code of Regulations, the EPA states:

“This rulemaking is necessary because without it the Prevention of Significant Deterioration and Title V requirements would apply, as of January 2, 2011, at the 100 or 250 tons per year levels provided under the CAA, greatly increasing the number of required permits, imposing undue costs on small sources, overwhelming the resources of permitting authorities, and severely impairing the functioning of the programs. EPA is relieving these resource burdens by phasing in the applicability of these programs to GHG sources, starting with the largest GHG emitters. This rule establishes two initial steps of the phase-in. The rule also commits the agency to take certain actions on future steps addressing smaller sources but excludes certain smaller sources from Prevention of Significant

Deterioration and Title V permitting for GHG emissions until at least April 30, 2016.”

The EPA estimates that facilities responsible for nearly 70% of the national GHG emissions from stationary sources would be subject to permitting requirements under this rule. This includes the nation’s largest GHG emitters—power plants, refineries, and cement production facilities.

STANDARDS OF PERFORMANCE FOR GHG EMISSIONS FOR NEW STATIONARY SOURCES: ELECTRIC UTILITY GENERATING UNITS

As required by a settlement agreement, the EPA proposed new performance standards for emissions of CO₂ for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts (MW) would be required to meet an output-based standard of 1,000 pounds (lbs) of CO₂ per MW-hour (MWh), based on the performance of widely used natural gas combined cycle technology. It should be noted that on February 9, 2016, the Supreme Court issued a stay of this regulation pending litigation. Additionally, the current EPA Administrator has also signed a measure to repeal the Clean Power Plan, including the CO₂ standards. The Clean Power Plan was officially repealed on June 19, 2019, when the EPA issued the final Affordable Clean Energy rule (ACE). Under ACE, new state emission guidelines were established that provided existing coal-fired electric utility generating units with achievable standards.

CAP-AND-TRADE

Cap-and-trade refers to a policy tool where emissions are limited to a certain amount and can be traded or provides flexibility on how the emitter can comply. Successful examples in the U.S. include the Acid Rain Program and the N₂O Budget Trading Program and Clean Air Interstate Rule in the northeast. There is no federal GHG cap-and-trade program currently; however, some states have joined to create initiatives to provide a mechanism for cap-and-trade.

The Regional GHG Initiative is an effort to reduce GHGs among the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. Each state caps CO₂ emissions from power plants, auctions CO₂ emission allowances, and invests the proceeds in strategic energy programs that further reduce emissions, save consumers money, create jobs, and build a clean energy economy. The Initiative began in 2008 and in 2020 has retained all participating states.

The Western Climate Initiative (WCI) partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15% below 2005 levels by 2020. The partners were originally California, British Columbia, Manitoba, Ontario, and Quebec. However, Manitoba and Ontario are not currently participating. California linked with Quebec’s cap-and-trade system January 1, 2014, and joint offset auctions took place in 2015. While the WCI has yet to publish whether it has successfully reached the 2020 emissions goal initiative set in 2007, SB 32 requires that California, a major partner in the WCI, adopt the goal of reducing statewide GHG emissions to 40% below the 1990 level by 2030.

SMARTWAY PROGRAM

The SmartWay Program is a public-private initiative between the EPA, large and small trucking companies, rail carriers, logistics companies, commercial manufacturers, retailers, and other federal and state agencies. Its purpose is to improve fuel efficiency and the environmental performance (reduction of both GHG emissions and air pollution) of the goods movement supply chains. SmartWay is comprised of four components (35):

1. SmartWay Transport Partnership: A partnership in which freight carriers and shippers commit to benchmark operations, track fuel consumption, and improve performance annually.
2. SmartWay Technology Program: A testing, verification, and designation program to help freight companies identify equipment, technologies, and strategies that save fuel and lower emissions.
3. SmartWay Vehicles: A program that ranks light-duty cars and small trucks and identifies superior environmental performers with the SmartWay logo.
4. SmartWay International Interests: Guidance and resources for countries seeking to develop freight sustainability programs modeled after SmartWay.

SmartWay effectively refers to requirements geared towards reducing fuel consumption. Most large trucking fleets driving newer vehicles are compliant with SmartWay design requirements. Moreover, over time, all HDTs would have to comply with the CARB GHG Regulation that is designed with the SmartWay Program in mind, to reduce GHG emissions by making them more fuel-efficient. For instance, in 2015, 53 foot or longer dry vans or refrigerated trailers equipped with a combination of SmartWay-verified low-rolling resistance tires and SmartWay-verified aerodynamic devices would obtain a total of 10% or more fuel savings over traditional trailers.

Through the SmartWay Technology Program, the EPA has evaluated the fuel saving benefits of various devices through grants, cooperative agreements, emissions, and fuel economy testing, demonstration projects and technical literature review. As a result, the EPA has determined the following types of technologies provide fuel saving and/or emission reducing benefits when used properly in their designed applications, and has verified certain products:

- Idle reduction technologies – less idling of the engine when it is not needed would reduce fuel consumption.
- Aerodynamic technologies minimize drag and improve airflow over the entire tractor-trailer vehicle. Aerodynamic technologies include gap fairings that reduce turbulence between the tractor and trailer, side skirts that minimize wind under the trailer, and rear fairings that reduce turbulence and pressure drop at the rear of the trailer.
- Low rolling resistance tires can roll longer without slowing down, thereby reducing the amount of fuel used. Rolling resistance (or rolling friction or rolling drag) is the force resisting the motion when a tire rolls on a surface. The wheel would eventually slow down because of this resistance.
- Retrofit technologies include things such as diesel particulate filters, emissions upgrades (to a higher tier), etc., which would reduce emissions.
- Federal excise tax exemptions.

EXECUTIVE ORDER 13990

On January 20, 2021, Federal agencies were directed to immediately review, and take action to address, Federal regulations promulgated and other actions taken during the last 4 years that conflict with national objectives to improve public health and the environment; ensure access to clean air and water; limit exposure to dangerous chemicals and pesticides; hold polluters accountable, including those who disproportionately harm communities of color and low-income communities; reduce greenhouse gas emissions; bolster resilience to the impacts of climate change; restore and expand our national treasures and monuments; and prioritize both environmental justice and employment.

2.7.3 CALIFORNIA

2.7.3.1 LEGISLATIVE ACTIONS TO REDUCE GHGS

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation such as the landmark AB 32 was specifically enacted to address GHG emissions. Other legislation such as Title 24 and Title 20 energy standards were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

AB 32

The California State Legislature enacted AB 32, which required that GHGs emitted in California be reduced to 1990 levels by the year 2020 (this goal has been met⁴). GHGs as defined under AB 32 include CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆. Since AB 32 was enacted, a seventh chemical, NF₃, has also been added to the list of GHGs. CARB is the state agency charged with monitoring and regulating sources of GHGs. Pursuant to AB 32, CARB adopted regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. AB 32 states the following:

“Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.”

SB 375

On September 30, 2008, SB 375 was signed by Governor Schwarzenegger. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40% of the total

⁴ Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 MMTCO₂e (29). This is less than the 2020 emissions target of 431 MMTCO₂e.

GHG emissions in California. SB 375 states, “Without improved land use and transportation policy, California would not be able to achieve the goals of AB 32.” SB 375 does the following: it (1) requires metropolitan planning organizations (MPOs) to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

SB 375 requires MPOs to prepare a Sustainable Communities Strategy (SCS) within the Regional Transportation Plan (RTP) that guides growth while taking into account the transportation, housing, environmental, and economic needs of the region. SB 375 uses CEQA streamlining as an incentive to encourage residential projects, which help achieve AB 32 goals to reduce GHG emissions. Although SB 375 does not prevent CARB from adopting additional regulations, such actions are not anticipated in the foreseeable future.

Concerning CEQA, SB 375, as codified in Public Resources Code Section 21159.28, states that CEQA findings for certain projects are not required to reference, describe, or discuss (1) growth inducing impacts, or (2) any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network, if the project:

1. Is in an area with an approved sustainable communities strategy or an alternative planning strategy that CARB accepts as achieving the GHG emission reduction targets.
2. Is consistent with that strategy (in designation, density, building intensity, and applicable policies).
3. Incorporates the MMs required by an applicable prior environmental document.

AB 1493 - Pavley Fuel Efficiency Standards

Enacted on July 22, 2002, California AB 1493, also known as the Pavley Fuel Efficiency Standards, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA’s denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the U.S. District Court for the District of Columbia in 2011.

The standards phase in during the 2009 through 2016 MY. Several technologies stand out as providing significant reductions in emissions at favorable costs. These include discrete variable valve lift or camless valve actuation to optimize valve operation rather than relying on fixed valve timing and lift as has historically been done; turbocharging to boost power and allow for engine downsizing; improved multi-speed transmissions; and improved air conditioning systems that operate optimally, leak less, and/or use an alternative refrigerant.

The second phase of the implementation for the Pavley bill was incorporated into Amendments to the Low-Emission Vehicle Program (LEV III) or the Advanced Clean Cars (ACC) program. The ACC program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for MY 2017 through 2025. The regulation would reduce GHGs from new cars by 34% from 2016 levels by 2025. The new rules would clean up gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid electric vehicles (EV) and hydrogen fuel

cell cars. The package would also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California.

CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SB 350)

In October 2015, the legislature approved, and Governor Jerry Brown signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for EV charging stations. Provisions for a 50% reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 25% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target would be achieved through the California Public Utilities Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) to develop more regional electrify transmission markets and to improve accessibility in these markets, which would facilitate the growth of renewable energy markets in the western United States.

SB 32

On September 8, 2016, Governor Brown signed SB 32 and its companion bill, AB 197. SB 32 requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80% below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (11).

CARB SCOPING PLAN UPDATE

In November 2017, CARB released the *Final 2017 Scoping Plan Update (2017 Scoping Plan)*, which identifies the State's post-2020 reduction strategy. The *2017 Scoping Plan* reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Key programs that the proposed Second Update builds upon include the Cap-and-Trade Regulation, the LCFS, and much cleaner cars, trucks, and freight movement, utilizing cleaner, renewable energy, and strategies to reduce CH₄ emissions from agricultural and other wastes.

The *2017 Scoping Plan* establishes a new emissions limit of 260 MMTCO_{2e} for the year 2030, which corresponds to a 40% decrease in 1990 levels by 2030 (36).

California's climate strategy would require contributions from all sectors of the economy, including the land base, and would include enhanced focus on zero and near-zero emission (ZE/NZE) vehicle technologies; continued investment in renewables, including solar roofs, wind, and other distributed generation; greater use of low carbon fuels; integrated land conservation

and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (CH₄, black carbon, and fluorinated gases); and an increased focus on integrated land use planning to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for direct GHG reductions at refineries would further support air quality co-benefits in neighborhoods, including in disadvantaged communities historically located adjacent to these large stationary sources, as well as efforts with California’s local air pollution control and air quality management districts (air districts) to tighten emission limits on a broad spectrum of industrial sources. Major elements of the *2017 Scoping Plan* framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing zero-emission vehicles (ZEV) buses and trucks.
- LCFS, with an increased stringency (18% by 2030).
- Implementing SB 350, which expands the RPS to 50% RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks.
- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing CH₄ and HCF emissions by 40% and anthropogenic black carbon emissions by 50% by year 2030.
- Continued implementation of SB 375.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- 20% reduction in GHG emissions from refineries by 2030.
- Development of a Natural and Working Lands Action Plan to secure California’s land base as a net carbon sink.

Note, however, that the *2017 Scoping Plan* acknowledges that:

“[a]chieving net zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA.”

In addition to the statewide strategies listed above, the *2017 Scoping Plan* also identifies local governments as essential partners in achieving the State’s long-term GHG reduction goals and identifies local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends that local governments achieve a community-wide goal to achieve emissions of no more than 6 metric tons of CO₂e (MTCO₂e) or less per capita by 2030 and 2 MTCO₂e or less per capita by 2050. For CEQA projects, CARB states that lead agencies may develop evidence-based bright-line numeric thresholds—consistent with the *2017 Scoping Plan* and the State’s long-term GHG goals—and projects with emissions over that amount may be required to incorporate on-site design features and MMs that avoid or minimize project emissions to the degree feasible; or a performance-based metric using a CAP or other plan to reduce GHG emissions is appropriate.

According to research conducted by the Lawrence Berkeley National Laboratory (LBNL) and supported by CARB, California, under its existing and proposed GHG reduction policies, could achieve the 2030 goals under SB 32. The research utilized a new, validated model known as the California LBNL GHG Analysis of Policies Spreadsheet (CALGAPS), which simulates GHG and criteria pollutant emissions in California from 2010 to 2050 in accordance to existing and future GHG-reducing policies. The CALGAPS model showed that by 2030, emissions could range from 211 to 428 MTCO₂e per year (MTCO₂e/yr), indicating that “even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40% below the 1990 level [of SB 32].” CALGAPS analyzed emissions through 2050 even though it did not generally account for policies that might be put in place after 2030. Although the research indicated that the emissions would not meet the State’s 80% reduction goal by 2050, various combinations of policies could allow California’s cumulative emissions to remain very low through 2050 (37) (38).

CAP-AND-TRADE PROGRAM

The *2017 Scoping Plan* identifies a Cap-and-Trade Program as one of the key strategies for California to reduce GHG emissions. According to CARB, a cap-and-trade program would help put California on the path to meet its goal of achieving a 40% reduction in GHG emissions from 1990 levels by 2030. Under cap-and-trade, an overall limit on GHG emissions from capped sectors is established, and facilities subject to the cap would be able to trade permits to emit GHGs within the overall limit.

CARB adopted a California Cap-and-Trade Program pursuant to its authority under AB 32. The Cap-and-Trade Program is designed to reduce GHG emissions from regulated entities by more than 16% between 2013 and 2020, and by an additional 40% by 2030. The statewide cap for GHG emissions from the capped sectors (e.g., electricity generation, petroleum refining, and cement production) commenced in 2013 and would decline over time, achieving GHG emission reductions throughout the program’s duration.

Covered entities that emit more than 25,000 MTCO₂e/yr must comply with the Cap-and-Trade Program. Triggering of the 25,000 MTCO₂e/yr “inclusion threshold” is measured against a subset of emissions reported and verified under the California Regulation for the Mandatory Reporting of GHG Emissions (Mandatory Reporting Rule or “MRR”).

Under the Cap-and-Trade Program, CARB issues allowances equal to the total amount of allowable emissions over a given compliance period and distributes these to regulated entities. Covered entities are allocated free allowances in whole or part (if eligible), and may buy allowances at auction, purchase allowances from others, or purchase offset credits. Each covered entity with a compliance obligation is required to surrender “compliance instruments” for each MTCO₂e of GHG they emit. There also are requirements to surrender compliance instruments covering 30% of the prior year’s compliance obligation by November of each year (39).

The Cap-and-Trade Program provides a firm cap, which provides the highest certainty of achieving the 2030 target. An inherent feature of the Cap-and-Trade program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather,

GHG emissions reductions are only guaranteed on an accumulative basis. As summarized by CARB in the *First Update to the Climate Change Scoping Plan*:

“The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced. In other words, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a global phenomenon, and the effects of GHG emissions are considered cumulative.” (40)

The Cap-and-Trade Program covers approximately 80% of California’s GHG emissions (36). The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects’ electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and from combustion of other fossil fuels not directly covered at large sources in the Program’s first compliance period. The Cap-and-Trade Program covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported.

2.7.3.2 EXECUTIVE ORDERS RELATED TO GHG EMISSIONS

California’s Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders. Although not regulatory, they set the tone for the state and guide the actions of state agencies.

EXECUTIVE ORDER S-3-05

California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S-3-05, the following reduction targets for GHG emissions:

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

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that would stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

EXECUTIVE ORDER S-01-07 (LCFS)

Governor Schwarzenegger signed Executive Order S-01-07 on January 18, 2007. The order mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10% by 2020. CARB adopted the LCFS on April 23, 2009.

The LCFS was challenged in the U.S. District Court in Fresno in 2011. The court's ruling issued on December 29, 2011, included a preliminary injunction against CARB's implementation of the rule. The Ninth Circuit Court of Appeals stayed the injunction on April 23, 2012, pending final ruling on appeal, allowing CARB to continue to implement and enforce the regulation. The Ninth Circuit Court's decision, filed September 18, 2013, vacated the preliminary injunction. In essence, the court held that LCFS adopted by CARB were not in conflict with federal law. On August 8, 2013, the Fifth District Court of Appeal (California) ruled CARB failed to comply with CEQA and the Administrative Procedure Act (APA) when adopting regulations for LCFS. In a partially published opinion, the Court of Appeal reversed the trial court's judgment and directed issuance of a writ of mandate setting aside Resolution 09-31 and two executive orders of CARB approving LCFS regulations promulgated to reduce GHG emissions. However, the court tailored its remedy to protect the public interest by allowing the LCFS regulations to remain operative while CARB complies with the procedural requirements it failed to satisfy.

To address the Court ruling, CARB was required to bring a new LCFS regulation to the Board for consideration in February 2015. The proposed LCFS regulation was required to contain revisions to the 2010 LCFS as well as new provisions designed to foster investments in the production of the low-carbon intensity fuels, offer additional flexibility to regulated parties, update critical technical information, simplify, and streamline program operations, and enhance enforcement. On November 16, 2015, the Office of Administrative Law (OAL) approved the Final Rulemaking Package. The new LCFS regulation became effective on January 1, 2016.

In 2018, CARB approved amendments to the regulation, which included strengthening the carbon intensity benchmarks through 2030 in compliance with the SB 32 GHG emissions reduction target for 2030. The amendments included crediting opportunities to promote zero emission vehicle adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector (41).

EXECUTIVE ORDER S-13-08

Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the Order, the *2009 California Climate Adaptation Strategy (CNRA 2009)* was adopted, which is the "...first statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." Objectives include analyzing risks of climate change in California, identifying, and exploring strategies to adapt to climate change, and specifying a direction for future research.

EXECUTIVE ORDER B-30-15

On April 29, 2015, Governor Brown issued an executive order to establish a California GHG reduction target of 40% below 1990 levels by 2030. The Governor’s executive order aligned California’s GHG reduction targets with those of leading international governments ahead of the U.N. Climate Change Conference in Paris late 2015. The Order sets a new interim statewide GHG emission reduction target to reduce GHG emissions to 40% below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80% below 1990 levels by 2050 and directs CARB to update the *2017 Scoping Plan* to express the 2030 target in terms of MMTCO_{2e}. The Order also requires the state’s climate adaptation plan to be updated every three years, and for the State to continue its climate change research program, among other provisions. As with Executive Order S-3-05, this Order is not legally enforceable as to local governments and the private sector. Legislation that would update AB 32 to make post 2020 targets and requirements a mandate is in process in the State Legislature.

EXECUTIVE ORDER B-55-18 AND SB 100

SB 100 and Executive Order B-55-18 were signed by Governor Brown on September 10, 2018. Under the existing RPS, 25% of retail sales of electricity are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California’s RPS requirement to 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours (kWh) of those products sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California EPA (CalEPA), the California Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

2.7.3.3 CALIFORNIA REGULATIONS AND BUILDING CODES

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California’s energy consumption relatively flat even with rapid population growth.

TITLE 20 CCR SECTIONS 1601 ET SEQ. – APPLIANCE EFFICIENCY REGULATIONS

The Appliance Efficiency Regulations regulate the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. 23 categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the state and those designed and sold exclusively for use in recreational vehicles (RV) or other mobile equipment (CEC 2012).

TITLE 24 CCR PART 6 – CALIFORNIA ENERGY CODE

The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California’s energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods.

TITLE 24 CCR PART 11 – CALIFORNIA GREEN BUILDING STANDARDS CODE

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California’s energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: CALGreen is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that will be effective on January 1, 2023. The CEC anticipates that the 2022 energy code will provide \$1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (42). The Project would be required to comply with the applicable standards in place at the time building permit document submittals are made. These require, among other items (43):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors’ entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106.5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty EV supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, upright and glare ratings per Table 5.106.8 (5.106.8).

- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
 - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
 - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
 - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
 - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).

- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

CARB REFRIGERANT MANAGEMENT PROGRAM

CARB adopted a regulation in 2009 to reduce refrigerant GHG emissions from stationary sources through refrigerant leak detection and monitoring, leak repair, system retirement and retrofitting, reporting and recordkeeping, and proper refrigerant cylinder use, sale, and disposal. The regulation is set forth in sections 95380 to 95398 of Title 17, CCR. The rules implementing the regulation establish a limit on statewide GHG emissions from stationary facilities with refrigeration systems with more than 50 pounds of a high GWP refrigerant. The refrigerant management program is designed to (1) reduce emissions of high-GWP GHG refrigerants from leaky stationary, non-residential refrigeration equipment; (2) reduce emissions from the installation and servicing of refrigeration and air-conditioning appliances using high-GWP refrigerants; and (3) verify GHG emission reductions.

TRACTOR-TRAILER GHG REGULATION

The tractors and trailers subject to this regulation must either use EPA SmartWay certified tractors and trailers or retrofit their existing fleet with SmartWay verified technologies. The regulation applies primarily to owners of 53-foot or longer box-type trailers, including both dry-van and refrigerated-van trailers, and owners of the HD tractors that pull them on California highways. These owners are responsible for replacing or retrofitting their affected vehicles with compliant aerodynamic technologies and low rolling resistance tires. Sleeper cab tractors MY 2011 and later must be SmartWay certified. All other tractors must use SmartWay verified low rolling resistance tires. There are also requirements for trailers to have low rolling resistance tires and aerodynamic devices.

PHASE I AND 2 HEAVY-DUTY VEHICLE GHG STANDARDS

In September 2011, CARB has adopted a regulation for GHG emissions from HDTs and engines sold in California. It establishes GHG emission limits on truck and engine manufacturers and harmonizes with the EPA rule for new trucks and engines nationally. Existing HD vehicle regulations in California include engine criteria emission standards, tractor-trailer GHG requirements to implement SmartWay strategies (i.e., the Heavy-Duty Tractor-Trailer GHG Regulation), and in-use fleet retrofit requirements such as the Truck and Bus Regulation. The EPA rule has compliance requirements for new compression and spark ignition engines, as well as trucks from Class 2b through Class 8. Compliance requirements began with MY 2014 with stringency levels increasing through MY 2018. The rule organizes truck compliance into three groupings, which include a) HD pickups and vans; b) vocational vehicles; and c) combination tractors. The EPA rule does not regulate trailers.

CARB staff has worked jointly with the EPA and the NHTSA on the next phase of federal GHG emission standards for medium-duty trucks (MDT) and HDT vehicles, called federal Phase 2. The federal Phase 2 standards were built on the improvements in engine and vehicle efficiency

required by the Phase 1 emission standards and represent a significant opportunity to achieve further GHG reductions for 2018 and later MY HDT vehicles, including trailers. The EPA and NHTSA have proposed to roll back GHG and fuel economy standards for cars and light-duty trucks, which suggests a similar rollback of Phase 2 standards for MDT and HDT vehicles may be pursued.

SB 97 AND THE CEQA GUIDELINES UPDATE

Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states “(a) On or before July 1, 2009, the Office of Planning and Research (OPR) shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the OPR pursuant to subdivision (a).”

In 2012, Public Resources Code Section 21083.05 was amended to state:

“The Office of Planning and Research and the Natural Resources Agency shall periodically update the guidelines for the mitigation of greenhouse gas emissions or the effects of greenhouse gas emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption, to incorporate new information or criteria established by the State Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code.”

On December 28, 2018, the Natural Resources Agency announced the OAL approved the amendments to the *CEQA Guidelines* for implementing CEQA. The CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing *CEQA Guidelines* to reference climate change.

Section 15064.4 was added to the *CEQA Guidelines* and states that in determining the significance of a project’s GHG emissions, the lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project’s emissions to the effects of climate change. A project’s incremental contribution may be cumulatively considerable even if it appears relatively insignificant compared to statewide, national, or global emissions. The agency’s analysis should consider a timeframe that is appropriate for the project. The agency’s analysis also must reasonably reflect evolving scientific knowledge and state regulatory schemes. Additionally, a lead agency may use a model or methodology to estimate GHG emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project’s incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use (44).

2.7.4 REGIONAL

The project is within the SCAB, which is under the jurisdiction of the SCAQMD.

SCAQMD

SCAQMD is the agency responsible for air quality planning and regulation in the SCAB. The SCAQMD addresses the impacts to climate change of projects subject to SCAQMD permit as a lead agency if they are the only agency having discretionary approval for the project and acts as a responsible agency when a land use agency must also approve discretionary permits for the project. The SCAQMD acts as an expert commenting agency for impacts to air quality. This expertise carries over to GHG emissions, so the agency helps local land use agencies through the development of models and emission thresholds that can be used to address GHG emissions.

In 2008, SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the SCAB. The Working Group developed several different options that are contained in the SCAQMD Draft Guidance Document – Interim CEQA GHG Significance Threshold, which could be applied by lead agencies. The working group has not provided additional guidance since release of the interim guidance in 2008. The SCAQMD Board has not approved the thresholds; however, the Guidance Document provides substantial evidence supporting the approaches to significance of GHG emissions that can be considered by the lead agency in adopting its own threshold. The current interim thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a GHG reduction plan. If a project is consistent with a qualifying local GHG reduction plan, it does not have significant GHG emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project is less than significant:
 - Residential and commercial land use: 3,000 MTCO₂e/yr
 - Industrial land use: 10,000 MTCO₂e/yr
 - Based on land use type: residential: 3,500 MTCO₂e/yr; commercial: 1,400 MTCO₂e/yr; or mixed use: 3,000 MTCO₂e/yr
- Tier 4 has the following options:
 - Option 1: Reduce Business-as-Usual (BAU) emissions by a certain percentage; this percentage is currently undefined.
 - Option 2: Early implementation of applicable AB 32 Scoping Plan measures
 - Option 3: 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO₂e per SP per year for projects and 6.6 MTCO₂e per SP per year for plans;

- Option 3, 2035 target: 3.0 MTCO₂e per SP per year for projects and 4.1 MTCO₂e per SP per year for plans
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's interim thresholds used the Executive Order S-3-05-year 2050 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap CO₂ concentrations at 450 ppm, thus stabilizing global climate.

SCAQMD only has authority over GHG emissions from development projects that include air quality permits. At this time, it is unknown if the project would include stationary sources of emissions subject to SCAQMD permits. Notwithstanding, if the Project requires a stationary permit, it would be subject to the applicable SCAQMD regulations.

SCAQMD Regulation XXVII, adopted in 2009 includes the following rules:

- Rule 2700 defines terms and post global warming potentials.
- Rule 2701, SoCal Climate Solutions Exchange, establishes a voluntary program to encourage, quantify, and certify voluntary, high quality certified GHG emission reductions in the SCAQMD.
- Rule 2702, GHG Reduction Program created a program to produce GHG emission reductions within the SCAQMD. The SCAQMD would fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

SCAQMD is the agency responsible for air quality planning and regulation in the SCAB. The SCAQMD addresses the impacts to climate change of projects subject to SCAQMD permit as a lead agency if they are the only agency having discretionary approval for the project and acts as a responsible agency when a land use agency must also approve discretionary permits for the project. The SCAQMD acts as an expert commenting agency for impacts to air quality. This expertise carries over to GHG emissions, so the agency helps local land use agencies through the development of models and emission thresholds that can be used to address GHG emissions.

CITY OF PERRIS CLIMATE ACTION PLAN (CAP)

The City of Perris CAP was adopted by the City Council (Resolution Number 4966) on February 23, 2016 (45). The CAP was developed to address global climate change through the reduction of harmful GHG emissions at the community level, and as part of California's mandated statewide GHG emissions reduction goals under AB 32. Perris's CAP, including the GHG inventories and forecasts contained within, is based on WRCOG's Subregional CAP. The Perris CAP utilized WRCOG's analysis of existing GHG reduction programs and policies that have already been implemented in the subregion and applicable best practices from other regions to assist in meeting the 2020 subregional reduction target. The CAP reduction measures chosen for the City's CAP were based on their GHG reduction potential, cost-benefit characteristics, funding availability, and feasibility of implementation in the City of Perris. The CAP used an inventory base year of 2010 and included emissions from the following sectors: residential energy, commercial/industrial energy, transportation, waste, and wastewater. The CAP's 2020 reduction target is 15% below 2010 levels, and the 2035 reduction target is 47.5% below 2010 levels. The City of Perris is expected to meet these reduction targets through implementation of statewide

and local measures. Beyond 2020, Executive Order S-03-05 calls for a reduction of GHG emissions to a level 80% below 1990 levels by 2050.

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3 PROJECT GHG IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will result in a significant GHG impact. The significance of these potential impacts is described in the following sections.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related GHG impacts are taken from the Initial Study Checklist in Appendix G of the State *CEQA Guidelines* (14 CCR of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to GHG if it would (1):

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

3.3 MODELS EMPLOYED TO ANALYZE GHGS

3.3.1 CALIFORNIA EMISSIONS ESTIMATOR MODEL (CALEEMOD)

In May 2021, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2020.4.0. The purpose of this model is to calculate construction-source and operational-source criteria pollutants and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (46). Accordingly, the latest version of CalEEMod has been used for this Project to determine GHG emissions. Output from the model runs for construction and operational activity are provided in Appendices 3.1 through 3.4. CalEEMod includes GHG emissions from the following source categories: construction, area, energy, mobile, waste, water.

3.4 LIFE-CYCLE ANALYSIS NOT REQUIRED

A full life-cycle analysis (LCA) for construction and operational activity is not included in this analysis due to the lack of consensus guidance on LCA methodology at this time (47). Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in the Project development, infrastructure, and on-going operations) depends on emission factors or econometric factors that are not well established for all processes. At this time, an LCA would be extremely speculative and thus has not been prepared.

Additionally, the SCAQMD recommends analyzing direct and indirect project GHG emissions generated within California and not life-cycle emissions because the life-cycle effects from a project could occur outside of California, might not be very well understood, or documented, and

would be challenging to mitigate (48). Additionally, the science to calculate life cycle emissions is not yet established or well defined; therefore, SCAQMD has not recommended, and is not requiring, life-cycle emissions analysis.

3.5 CONSTRUCTION EMISSIONS

Project construction activities would generate CO₂ and CH₄ emissions. The report *First March Logistics (DPR20-00004) Air Quality Impact Analysis Report (AQIA)* contains detailed information regarding Project construction activities (49). As discussed in the AQIA, Construction related emissions are expected from the following construction activities:

- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

3.5.1 CONSTRUCTION DURATION

As previously stated, Building 1 (Phase 1) is anticipated to be constructed by the year 2023 while Project Buildout (Phase 2) is anticipated by year 2025. As such, Phase 1 construction is expected to commence in July 2022 and will last through November 2023. Phase 2 construction would commence in November 2023 and end in December 2024. The construction schedule utilized in the analysis, shown in Table 3-2, represents a “worst-case” analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent⁵. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (50).

TABLE 3-2: CONSTRUCTION DURATION (1 OF 2)

| Phase | Construction Activity | Start Date | End Date | Days |
|----------------------|-----------------------|------------|------------|------|
| Building 1 (Phase 1) | Site Preparation | 07/01/2022 | 07/14/2022 | 10 |
| | Grading | 07/15/2022 | 08/25/2022 | 30 |
| | Building Construction | 08/26/2022 | 10/19/2023 | 300 |
| | Paving | 10/20/2023 | 11/16/2023 | 20 |
| | Architectural Coating | 09/22/2023 | 11/16/2023 | 40 |

⁵ As shown in the CalEEMod User’s Guide Version 2020.4.0, Section 4.3 “OFFROAD Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 3-2: CONSTRUCTION DURATION (2 OF 2)

| Phase | Construction Activity | Start Date | End Date | Days |
|--|-----------------------|------------|------------|------|
| Project Buildout (Phase 2 – Construction of Building 2) | Site Preparation | 11/17/2023 | 11/30/2023 | 10 |
| | Grading | 12/01/2023 | 12/28/2023 | 20 |
| | Building Construction | 12/29/2023 | 11/14/2024 | 230 |
| | Paving | 11/15/2024 | 12/12/2024 | 20 |
| | Architectural Coating | 10/18/2024 | 12/12/2024 | 40 |

3.5.2 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 3-3 will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code.

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

| Phase | Construction Activity | Equipment | Amount | Hours Per Day |
|-----------------------|-----------------------|---------------------|--------|---------------|
| Building 1 (Phase 1) | Site Preparation | Crawler Tractors | 4 | 8 |
| | | Rubber Tired Dozers | 3 | 8 |
| | Grading | Crawler Tractors | 2 | 8 |
| | | Excavators | 2 | 8 |
| | | Graders | 1 | 8 |
| | | Rubber Tired Dozers | 1 | 8 |
| | | Scrapers | 2 | 8 |
| | | | | |
| | Building Construction | Cranes | 1 | 8 |
| | | Crawler Tractors | 3 | 8 |
| | | Forklifts | 3 | 8 |
| | | Generator Sets | 1 | 8 |
| | | Welders | 1 | 8 |
| | Paving | Pavers | 2 | 8 |
| | | Paving Equipment | 2 | 8 |
| | | Rollers | 2 | 8 |
| Architectural Coating | Air Compressors | 1 | 8 | |

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)

| Phase | Construction Activity | Equipment | Amount | Hours Per Day |
|--|-----------------------|---------------------|--------|---------------|
| Project Buildout (Phase 2 – Construction of Building 2) | Site Preparation | Crawler Tractors | 4 | 8 |
| | | Rubber Tired Dozers | 3 | 8 |
| | Grading | Crawler Tractors | 3 | 8 |
| | | Excavators | 1 | 8 |
| | | Graders | 1 | 8 |
| | | Rubber Tired Dozers | 1 | 8 |
| | Building Construction | Cranes | 1 | 8 |
| | | Crawler Tractors | 3 | 8 |
| | | Forklifts | 3 | 8 |
| | | Generator Sets | 1 | 8 |
| | | Welders | 1 | 8 |
| | Paving | Pavers | 2 | 8 |
| | | Paving Equipment | 2 | 8 |
| | | Rollers | 2 | 8 |
| | Architectural Coating | Air Compressors | 1 | 8 |

3.5.3 CONSTRUCTION EMISSIONS SUMMARY

For construction phase Project emissions, GHGs are quantified and amortized over the life of the Project. To amortize the emissions over the life of the Project, the SCAQMD recommends calculating the total GHG emissions for the construction activities, dividing it by a 30-year Project life then adding that number to the annual operational phase GHG emissions (51). As such, construction emissions were amortized over a 30-year period and added to the annual operational phase GHG emissions. The amortized construction emissions are presented in Table 3-4.

TABLE 3-4: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS (1 OF 2)

| Phase | Year | Emissions (MT/yr) | | | |
|---|------|-------------------|-----------------|------------------|--------------------------------------|
| | | CO ₂ | CH ₄ | N ₂ O | Total CO ₂ e ⁶ |
| Building 1 (Phase 1) | 2022 | 535.40 | 0.09 | 0.02 | 543.21 |
| | 2023 | 964.20 | 0.12 | 0.04 | 979.17 |
| Total GHG Emissions | | 1,150.29 | 1499.60 | 0.21 | 0.06 |
| Amortized Construction Emissions (MTCO₂e) | | 38.34 | 49.99 | 0.01 | 1.96E-03 |

⁶ CalEEMod reports the most common GHGs emitted which include CO₂, CH₄, and N₂O. These GHGs are then converted into the CO₂e by multiplying the individual GHG by the GWP.

TABLE 3-4: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS (2 OF 2)

| Phase | Year | Emissions (MT/yr) | | | |
|---|------|-------------------|-----------------|------------------|--------------------------------------|
| | | CO ₂ | CH ₄ | N ₂ O | Total CO ₂ e ⁷ |
| Project Buildout (Phase 2 – Construction of Building 2) | 2022 | 535.40 | 0.09 | 0.02 | 543.21 |
| | 2023 | 1033.08 | 0.14 | 0.04 | 1048.65 |
| | 2024 | 641.96 | 0.13 | 0.01 | 649.15 |
| Total GHG Emissions | | 1,150.29 | 2210.44 | 0.36 | 0.07 |
| Amortized Construction Emissions (MTCO₂e) | | 38.34 | 73.68 | 0.01 | 2.42E-03 |

Source CalEEMod annual construction-source emissions are presented in Appendices 3.1 and 3.2.

3.6 OPERATIONAL EMISSIONS

Operational activities associated with the Project will result in emissions of CO₂, CH₄, and N₂O from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Cargo Handling Equipment Emissions
- Water Supply, Treatment, and Distribution
- Solid Waste

3.6.1 AREA SOURCE EMISSIONS

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

3.6.2 ENERGY SOURCE EMISSIONS

COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity are generally excluded from the evaluation of significance and only natural gas use is considered. Based on information provided

⁷ CalEEMod reports the most common GHGs emitted which include CO₂, CH₄, and N₂O. These GHGs are then converted into the CO₂e by multiplying the individual GHG by the GWP.

by the Project Applicant, the Project would not utilize natural gas and therefore no air quality emissions from energy sources would occur.

3.6.3 MOBILE SOURCE EMISSIONS

The Project GHG emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *First March Logistics (DPR20-00004) Traffic Analysis (TA)* were utilized in this analysis (52).

APPROACH FOR ANALYSIS OF THE PROJECT

For purposes of analysis, CalEEMod default parameters were used to determine mobile-source emissions from all non-industrial land uses. In order to determine emissions from passenger car vehicles, the CalEEMod defaults were utilized for trip length and trip purpose for the proposed industrial land uses. For the proposed industrial uses, it is important to note that although the TA does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1⁸ & LDT2⁹), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. In order to account for emissions generated by passenger cars, the following fleet mix was utilized in this analysis:

TABLE 3-5: PASSENGER CAR FLEET MIX

| Land Use | Vehicle Type | % |
|--|--------------|-------|
| Building 1 (Phase 1 – Operations of Building 1) | | |
| Manufacturing/ High-Cube Fulfillment Center | LDA | 57.60 |
| | LDT1 | 6.03 |
| | LDT2 | 18.59 |
| | MDV | 15.19 |
| | MCY | 2.59 |
| Project Buildout (Phase 1 + 2 – Operations of Buildings 1 and 2) | | |
| Manufacturing/ High-Cube Fulfillment Center/ Warehouse | LDA | 57.87 |
| | LDT1 | 6.05 |
| | LDT2 | 18.63 |
| | MDV | 14.89 |
| | MCY | 2.56 |

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

⁸ Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

⁹ Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

For purposes of analysis, CalEEMod default parameters were used to determine mobile-source emissions from all non-industrial land uses. In order to determine emissions from trucks for the proposed industrial uses, the analysis incorporated the SCAQMD recommended truck trip length of 40 miles¹⁰ and an assumption of 100% primary trips for the proposed industrial land uses.

In order to be consistent with the TA, trucks are broken down by truck type. The truck fleet mix is estimated by rationing the trip rates for each truck type based on information provided in the TA. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1¹¹ & LHDT2¹²)/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. In order to account for emissions generated by trucks, the following fleet mix was utilized in this analysis:

TABLE 3-6: TRUCK FLEET MIX (1 OF 2)

| Land Use | Vehicle Type | % |
|--|--------------|-------|
| Building 1 (Phase 1 – Operations of Building 1) | | |
| Manufacturing | LHDT1 | 14.94 |
| | LHDT2 | 4.11 |
| | MHDT | 19.05 |
| | HHDT | 61.90 |
| High-Cube Fulfillment Center | LHDT1 | 8.72 |
| | LHDT2 | 2.40 |
| | MHDT | 11.11 |
| | HHDT | 77.78 |
| Project Buildout (Phase 1 + 2 – Operations of Buildings 1 and 2) | | |
| Manufacturing | LHDT1 | 14.91 |
| | LHDT2 | 4.14 |
| | MHDT | 19.05 |
| | HHDT | 61.90 |
| High-Cube Fulfillment Center | LHDT1 | 8.70 |
| | LHDT2 | 2.41 |
| | MHDT | 11.11 |
| | HHDT | 77.78 |

¹⁰ The average trip length for heavy trucks were based on the SCAQMD documents for the implementation of the Facility-Based Mobile Source Measures (FBMSMs) adopted in the 2016 AQMP. SCAQMD’s “Preliminary Warehouse Emission Calculations” cites 39.9-mile trip length for heavy-heavy trucks (41). As a conservative measure, a trip length of 40 miles has been utilized for all trucks for the purpose of this analysis (39)

¹¹ Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

¹² Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

TABLE 3-6: TRUCK FLEET MIX (2 OF 2)

| Land Use | Vehicle Type | % |
|--|--------------|-------|
| Project Buildout (Phase 1 + 2 – Operations of Buildings 1 and 2) | | |
| Warehouse | LHDT1 | 13.82 |
| | LHDT2 | 3.83 |
| | MHDT | 20.59 |
| | HHDT | 61.76 |

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative to the total number of truck trips.

3.6.4 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

It is common for warehouse buildings to require the operation of exterior cargo handling equipment in the building’s truck court areas. For this particular Project, on-site modeled operational equipment includes up to three (3) 200 horsepower (hp), compressed natural gas or gasoline-powered tractors/loaders/backhoes operating at 4 hours a day¹³ for 365 days of the year.

3.6.5 WATER SUPPLY, TREATMENT AND DISTRIBUTION

Indirect GHG emissions result from the production of electricity used to convey, treat, and distribute water and wastewater. The amount of electricity required to convey, treat, and distribute water depends on the volume of water as well as the sources of the water. Unless otherwise noted, CalEEMod default parameters were used.

3.6.6 SOLID WASTE

Industrial land uses will result in the generation and disposal of solid waste. A percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the proposed Project were calculated by CalEEMod using default parameters.

3.6.7 EMISSIONS SUMMARY

The annual GHG emissions associated with the Project are summarized in Table 3-7. As shown in Table 3-7, construction and operation of the Project during Building 1 (Phase 1) would generate a net total of approximately 4,953.23 MTCO₂e/yr and 6,183.22 MTCO₂e/yr during Project Buildout (Phase 1 + 2).

¹³ Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB’s Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

TABLE 3-7: PROJECT SCENARIO GHG EMISSIONS

| Phase | Emission Source | Emissions (MT/yr) | | | |
|--|----------------------------------|-------------------|-----------------|------------------|-------------------------|
| | | CO ₂ | CH ₄ | N ₂ O | Total CO ₂ e |
| Building 1 (Phase 1 – Operations of Building 1) | Amortized Construction Emissions | 49.99 | 0.01 | 1.96E-03 | 50.75 |
| | Area Source | 0.03 | 9.00E-05 | 0.00 | 0.04 |
| | Energy Source | 536.33 | 0.03 | 7.19E-03 | 539.26 |
| | Mobile Source | 3,522.86 | 0.09 | 0.40 | 3,643.25 |
| | On-Site Equipment | 101.50 | 0.03 | 0.00 | 102.32 |
| | Waste | 92.00 | 5.44 | 0.00 | 227.94 |
| | Water Usage | 279.77 | 3.41 | 0.08 | 389.68 |
| Total Phase 1 CO₂e (All Sources) | | 4,953.23 | | | |
| Project Buildout (Phase 1 + 2 – Operations of Buildings 1 and 2) | Amortized Construction Emissions | 73.68 | 0.01 | 2.42E-03 | 74.70 |
| | Area Source | 0.04 | 1.20E-04 | 0.00 | 0.05 |
| | Energy Source | 610.18 | 0.04 | 8.07E-03 | 613.50 |
| | Mobile Source | 4,383.11 | 0.10 | 0.51 | 4,536.59 |
| | On-Site Equipment | 152.31 | 0.05 | 0.00 | 153.54 |
| | Waste | 118.73 | 7.02 | 0.00 | 294.14 |
| | Water Usage | 366.62 | 4.47 | 0.11 | 510.71 |
| Total Project Buildout CO₂e (All Sources) | | 6,183.22 | | | |

Source: CalEEMod output, See Appendices 3.1 and 3.4 for detailed model outputs.

3.7 GHG EMISSIONS FINDINGS AND RECOMMENDATIONS

3.7.1 GHG IMPACT 1

Potential to generate direct or indirect GHG emissions that would result in a significant impact on the environment.

A numerical threshold for determining the significance of GHG emissions in the SCAB has not been established by the SCAQMD for Projects where it is not the lead agency. As an interim threshold based on guidance provided in the CAPCOA CEQA and Climate Change handbook, the City has opted to use a non-zero threshold approach based on Approach 2 of the handbook. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90% of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 MTCO₂e/yr for all projects (53).

The Project would result in approximately 1,309.98 MTCO₂e/yr during Building 1 (Phase 1) and 1,646.63 MTCO₂e/yr during Project Buildout (Phase 2) from construction, area, energy, on-site equipment, waste, and water usage. In addition, the Project has the potential to result in an

additional 3,643.25 MTCO₂e/yr during Building 1 (Phase 1) and 4,536.59 MTCO₂e/yr during Project Buildout (Phase 2) MTCO₂e/yr from mobile sources if the assumption is made that all of the vehicle trips to and from the Project are “new” trips resulting from the development of the Project. As such, the Project has the potential to generate a total of approximately 4,953.23 MTCO₂e/yr during Building 1 (Phase 1) and 6,183.22 MTCO₂e/yr during Project Buildout (Phase 2). As such, the Project would exceed the SCAQMD’s numeric threshold of 3,000 MTCO₂e/yr. Thus, the Project would have the potential to result in a cumulatively considerable impact with respect to GHG emissions.

3.7.2 GHG IMPACT 2

The Project would have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

The Project’s consistency with SB 32 (2017 Scoping Plan) and the City’s CAP is discussed below.

SB 32/2017 SCOPING PLAN CONSISTENCY

The 2017 Scoping Plan Update reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Table 3-8 summarizes the project’s consistency with the 2017 Scoping Plan. As summarized, the project will not conflict with any of the provisions of the Scoping Plan and in fact supports seven of the action categories.

TABLE 3-8: 2017 SCOPING PLAN CONSISTENCY SUMMARY¹⁴

| Action | Responsible Parties | Consistency |
|---|-----------------------|--|
| Implement SB 350 by 2030 | | |
| Increase the Renewables Portfolio Standard to 50% of retail sales by 2030 and ensure grid reliability. | CPUC, CEC, CARB | Consistent. The Project would use energy from Southern California Edison (SCE). SCE has committed to diversify its portfolio of energy sources by increasing energy from wind and solar sources. The Project would not interfere with or obstruct SCE energy source diversification efforts. |
| Establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas end uses by 2030. | | Consistent. The Project would be constructed in compliance with current California Building Code requirements. Specifically, new buildings must achieve compliance with 2019 Building and Energy Efficiency Standards and the 2019 |

¹⁴ Source California Air Resources Board, California’s 2017 Climate Change Scoping Plan, November 2017 and CARB, Climate Change Scoping Plan, December 2008.

| Action | Responsible Parties | Consistency |
|--|--|---|
| <p>Reduce GHG emissions in the electricity sector through the implementation of the above measures and other actions as modeled in Integrated Resource Planning (IRP) to meet GHG emissions reductions planning targets in the IRP process. Load-serving entities and publicly- owned utilities meet GHG emissions reductions planning targets through a combination of measures as described in IRPs.</p> | | <p>California Green Building Standards requirements. The proposed Project includes energy efficient field lighting and fixtures that meet the current Title 24 Standards throughout the Project Site and would be a modern development with energy efficient boilers, heaters, and air conditioning systems.</p> |
| <p>Implement Mobile Source Strategy (Cleaner Technology and Fuels)</p> | | |
| <p>At least 1.5 million zero emission and plug-in hybrid light-duty EVs by 2025.</p> | <p>CARB, California State Transportation Agency (CalSTA), Strategic Growth Council (SGC), California Department of Transportation (Caltrans), CEC, OPR, Local Agencies</p> | <p>Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB zero emission and plug-in hybrid light-duty EV 2025 targets. As this is a CARB enforced standard, vehicles that access the Project are required to comply with the standards and will therefore comply with the strategy.</p> |
| <p>At least 4.2 million zero emission and plug-in hybrid light-duty EVs by 2030.</p> | | <p>Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB zero emission and plug-in hybrid light-duty EV 2030 targets. As this is a CARB enforced standard, vehicles that access the Project are required to comply with the standards and will therefore comply with the strategy.</p> |
| <p>Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations.</p> | | <p>Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean cars regulations. As this is a CARB enforced standard, vehicles that access the Project are required to comply with the standards and will therefore comply with the strategy.</p> |
| <p>Medium- and Heavy-Duty GHG Phase 2.</p> | | <p>Consistent. This is a CARB Mobile Source Strategy. The Project would not obstruct or interfere with CARB efforts to</p> |

| Action | Responsible Parties | Consistency |
|---|---------------------|--|
| | | implement Medium- and Heavy-Duty GHG Phase 2. As this is a CARB enforced standard, vehicles that access the Project are required to comply with the standards and will therefore comply with the strategy. |
| Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20% of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100% of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-duty low-NO _x standard. | | Not applicable. This measure is not within the purview of this Project. |
| Last Mile Delivery: New regulation that would result in the use of low NO _x or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5% of new Class 3–7 truck sales in local fleets starting in 2020, increasing to 10% in 2025 and remaining flat through 2030. | | Not applicable. This Project is not responsible for implementation of SB 375 and would therefore not conflict with this measure |
| Further reduce VMT through continued implementation of SB 375 and regional Sustainable Communities Strategies; forthcoming statewide implementation of SB 743; and potential additional VMT reduction strategies not specified in the Mobile Source Strategy but included in the document “Potential VMT Reduction Strategies for Discussion.” | | Consistent. This Project would not obstruct or interfere with implementation of SB 375 and would therefore not conflict with this measure. |
| Increase stringency of SB 375 Sustainable Communities Strategy (2035 targets). | CARB | Not applicable. The Project is not within the purview of SB 375 and would therefore not conflict with this measure. |

| Action | Responsible Parties | Consistency |
|--|--|---|
| <p>Harmonize project performance with emissions reductions and increase competitiveness of transit and active transportation modes (e.g., via guideline documents, funding programs, project selection, etc.).</p> | <p>CalSTA, SGC, OPR, CARB, Governor’s Office of Business and Economic Development (GO-Biz), California Infrastructure and Economic Development Bank (IBank), Department of Finance (DOF), California Transportation Commission (CTC), Caltrans</p> | <p>Consistent. The Project would not obstruct or interfere with agency efforts to harmonize transportation facility project performance with emissions reductions and increase competitiveness of transit and active transportation modes.</p> |
| <p>By 2019, develop pricing policies to support low-GHG transportation (e.g., low-emission vehicle zones for heavy duty, road user, parking pricing, transit discounts).</p> | <p>CalSTA, Caltrans, CTC, OPR, SGC, CARB</p> | <p>Consistent. The Project would not obstruct or interfere with agency efforts to develop pricing policies to support low-GHG transportation.</p> |
| <p>Implement California Sustainable Freight Action Plan</p> | | |
| <p>Improve freight system efficiency.</p> | <p>CalSTA, CalEPA, CNRA, CARB, Caltrans,</p> | <p>Consistent. This measure would apply to all trucks accessing the Project sites, this may include existing trucks or new trucks that are part of the statewide goods movement sector. The Project would not obstruct or interfere with agency efforts to Improve freight system efficiency.</p> |
| <p>Deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.</p> | <p>CEC, GO-Biz</p> | <p>Not applicable. This measure is not within the purview of this Project.</p> |
| <p>Adopt a Low Carbon Fuel Standard with a Carbon Intensity reduction of 18%.</p> | <p>CARB</p> | <p>Consistent. When adopted, this measure would apply to all fuel purchased and used by the Project in the state. The Project would not obstruct or interfere</p> |

| Action | Responsible Parties | Consistency |
|--|--|---|
| | | with agency efforts to adopt a Low Carbon Fuel Standard with a Carbon Intensity reduction of 18%. |
| Implement the Short-Lived Climate Pollutant Strategy (SLPS) by 2030 | | |
| 40% reduction in methane and hydrofluorocarbon emissions below 2013 levels. | CARB, CalRecycle, CDFA, California State Water Resource Control Board (SWRCB), Local Air Districts | Not applicable. This measure is not within the purview of this Project. |
| 50% reduction in black carbon emissions below 2013 levels. | | |
| By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383. | CARB, CalRecycle, CDFA, SWRCB, Local Air Districts | Not applicable. This measure is not within the purview of this Project. |
| Implement the post-2020 Cap-and-Trade Program with declining annual caps. | CARB | Consistent. The Project would be required to comply with any applicable Cap-and-Trade Program provisions. The Project would not obstruct or interfere agency efforts to implement the post-2020 Cap-and-Trade Program. |
| By 2018, develop Integrated Natural and Working Lands Implementation Plan to secure California’s land base as a net carbon sink | | |
| Protect land from conversion through conservation easements and other incentives. | CNRA, Departments Within CDFA, CalEPA, CARB | Not applicable. This measure is not within the purview of this Project. However, the Project site is not an identified property that needs to be conserved. |
| Increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity. | | Consistent. The Project site is vacant disturbed property and does not comprise an area that would effectively provide for carbon sequestration. The Project would not obstruct or interfere agency efforts to increase the long-term resilience of carbon storage in the land base and enhance sequestration capacity. |

| Action | Responsible Parties | Consistency |
|---|---|---|
| Utilize wood and agricultural products to increase the amount of carbon stored in the natural and built environments. | | Consistent. To the extent appropriate for the proposed industrial buildings, wood products would be used in construction, including for the roof structure. Additionally, the proposed project includes landscaping, including. |
| Establish scenario projections to serve as the foundation for the Implementation Plan. | | Not applicable. This measure is not within the purview of this Project. |
| Implement Forest Carbon Plan | CNRA, California Department of Forestry and Fire Protection (CAL FIRE), CalEPA and Departments Within | Not applicable. This measure is not within the purview of this Project. |
| Identify and expand funding and financing mechanisms to support GHG reductions across all sectors. | State Agencies & Local Agencies | Not applicable. This measure is not within the purview of this Project. |

As shown above, the Project would not conflict with any of the *2017 Scoping Plan* elements as any regulations adopted would apply directly or indirectly to the Project. Further, recent studies show that the State’s existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40% below 1990 levels by 2030 (37).

CONSISTENCY WITH THE CITY’S CAP

The City of Perris adopted its CAP in February 2016. The measures identified in the CAP represent the City’s actions to achieve the GHG reduction targets of AB 32 for target year 2020. Local measures incorporated in the CAP include:

- An energy measure that directs the City to create an energy action plan to reduce energy consumption citywide
- Land use and transportation measures that encourage alternative modes of transportation (walking, biking, and transit), reduce motor vehicle use by allowing a reduction in parking supply, voluntary transportation demand management to reduce vehicle miles traveled, and land use strategies that improve jobs-housing balance (increased density and mixed-use)
- Solid waste measures that reduce landfilled solid waste in the City

The Project would comply with the CAP through compliance with the PVCCSP EIR mitigation measures and additional project-level air quality mitigation measures identified previously, which would lessen the Project's contribution of GHG emissions from both construction and operation. The Project would not conflict with local strategies and state/regional strategies listed in the Perris CAP.

Further, the Project is subject to California Building Code requirements. New buildings must meet the applicable building code requirements and standards in place at the time building permit documentation submittals are made. CALGreen is updated on a regular basis, with the most recent approved 2022 California Green Building Code Standards taking effect on January 1, 2023. As Building 1 (Phase 1) is anticipated to be constructed by the year 2023, while Project Buildout (Phase 2) is anticipated by year 2025, it is presumed that the Project would be required to comply with the Title 24 standards in place at that time. While the Project does not include reduced parking, or increased density, it would provide sidewalks, bike racks, pedestrian walkways, a bus stop, and TDM measures to encourage the use of alternative modes of transportation (walking, biking, and transit). As such, the Project would not conflict with applicable GHG reduction measures in the CAP and a less than significant impact is expected to occur.

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5 CERTIFICATIONS

The contents of this GHG study report represent an accurate depiction of the GHG impacts associated with the proposed First March Logistics Project. The information contained in this GHG report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June, 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 3.1:

CALEEMOD BUILDING 1 (PHASE 1) CONSTRUCTION EMISSIONS MODEL OUTPUTS

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First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

First March Logistics (Building 1 Construction - Unmitigated)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|--------|----------|-------------|--------------------|------------|
| Manufacturing | 100.00 | 1000sqft | 2.30 | 100,000.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| Other Asphalt Surfaces | 198.97 | 1000sqft | 4.57 | 198,972.00 | 0 |
| Parking Lot | 262.00 | Space | 2.34 | 102,031.00 | 0 |
| City Park | 2.75 | Acre | 2.75 | 119,841.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 390.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area (Building 1) is 19.99 acres

Construction Phase - Construction anticipated to end in 2023

Off-road Equipment - Hours are based on an 8-hour workday

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

Trips and VMT - Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, Building Construction, and Paving

Grading - Analysis conservatively assumes that the entire Project site (20 acres) can be disturbed per day

Architectural Coating - PVCC MM Air 9

Vehicle Trips - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Construction Off-road Equipment Mitigation - Rule 403

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|------------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 10.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 10.00 |
| tblConstructionPhase | NumDays | 20.00 | 40.00 |
| tblEnergyUse | LightingElect | 2.93 | 0.00 |
| tblEnergyUse | LightingElect | 0.35 | 0.00 |
| tblEnergyUse | LightingElect | 1.17 | 0.00 |
| tblEnergyUse | NT24E | 5.02 | 0.00 |
| tblEnergyUse | NT24E | 0.82 | 0.00 |
| tblEnergyUse | NT24NG | 17.13 | 0.00 |
| tblEnergyUse | NT24NG | 0.03 | 0.00 |
| tblEnergyUse | T24E | 1.97 | 0.00 |
| tblEnergyUse | T24E | 0.33 | 0.00 |
| tblEnergyUse | T24NG | 15.20 | 0.00 |
| tblEnergyUse | T24NG | 1.98 | 0.00 |
| tblGrading | AcresOfGrading | 120.00 | 600.00 |
| tblGrading | AcresOfGrading | 35.00 | 200.00 |
| tblLandUse | LandUseSquareFeet | 104,800.00 | 102,031.00 |
| tblLandUse | LandUseSquareFeet | 119,790.00 | 119,841.00 |
| tblLandUse | LotAcreage | 2.36 | 2.34 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | | | |
|---------------------|----------------------------|--------|--------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblSolidWaste | SolidWasteGenerationRate | 0.24 | 0.00 |
| tblSolidWaste | SolidWasteGenerationRate | 124.00 | 0.00 |
| tblSolidWaste | SolidWasteGenerationRate | 329.00 | 0.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 4.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 12.00 |
| tblTripsAndVMT | VendorTripNumber | 143.00 | 119.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 8.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TTP | 48.00 | 0.00 |
| tblVehicleTrips | CC_TTP | 28.00 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TTP | 19.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 13.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |

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

| | | | |
|-----------------|---------------------|---------------|------|
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | CW_TTP | 33.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 0.00 |
| tblVehicleTrips | DV_TP | 28.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 6.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 66.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 0.00 |
| tblVehicleTrips | ST_TR | 1.96 | 0.00 |
| tblVehicleTrips | ST_TR | 6.42 | 0.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.00 |
| tblVehicleTrips | SU_TR | 2.19 | 0.00 |
| tblVehicleTrips | SU_TR | 5.09 | 0.00 |
| tblVehicleTrips | SU_TR | 1.74 | 0.00 |
| tblVehicleTrips | WD_TR | 0.78 | 0.00 |
| tblVehicleTrips | WD_TR | 3.93 | 0.00 |
| tblVehicleTrips | WD_TR | 1.74 | 0.00 |
| tblWater | IndoorWaterUseRate | 23,125,000.00 | 0.00 |
| tblWater | IndoorWaterUseRate | 80,937,500.00 | 0.00 |
| tblWater | OutdoorWaterUseRate | 3,276,573.71 | 0.00 |

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

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.2823 | 2.6145 | 2.0065 | 5.9400e-003 | 0.8277 | 0.1018 | 0.9294 | 0.2051 | 0.0945 | 0.2996 | 0.0000 | 535.4003 | 535.4003 | 0.0896 | 0.0187 | 543.2099 |
| 2023 | 0.6845 | 3.4000 | 3.4291 | 0.0106 | 0.5172 | 0.1294 | 0.6465 | 0.1391 | 0.1208 | 0.2600 | 0.0000 | 964.1962 | 964.1962 | 0.1226 | 0.0400 | 979.1753 |
| Maximum | 0.6845 | 3.4000 | 3.4291 | 0.0106 | 0.8277 | 0.1294 | 0.9294 | 0.2051 | 0.1208 | 0.2996 | 0.0000 | 964.1962 | 964.1962 | 0.1226 | 0.0400 | 979.1753 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.2823 | 2.6145 | 2.0065 | 5.9400e-003 | 0.4587 | 0.1018 | 0.5605 | 0.1166 | 0.0945 | 0.2111 | 0.0000 | 535.4000 | 535.4000 | 0.0896 | 0.0187 | 543.2096 |
| 2023 | 0.6845 | 3.4000 | 3.4291 | 0.0106 | 0.5172 | 0.1294 | 0.6465 | 0.1391 | 0.1208 | 0.2600 | 0.0000 | 964.1957 | 964.1957 | 0.1226 | 0.0400 | 979.1748 |
| Maximum | 0.6845 | 3.4000 | 3.4291 | 0.0106 | 0.5172 | 0.1294 | 0.6465 | 0.1391 | 0.1208 | 0.2600 | 0.0000 | 964.1957 | 964.1957 | 0.1226 | 0.0400 | 979.1748 |

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 27.44 | 0.00 | 23.41 | 25.72 | 0.00 | 15.82 | 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 | 7-1-2022 | 9-30-2022 | 1.5790 | 1.5790 |
| 2 | 10-1-2022 | 12-31-2022 | 1.3263 | 1.3263 |
| 3 | 1-1-2023 | 3-31-2023 | 1.1287 | 1.1287 |
| 4 | 4-1-2023 | 6-30-2023 | 1.1356 | 1.1356 |
| 5 | 7-1-2023 | 9-30-2023 | 1.1961 | 1.1961 |
| | | Highest | 1.5790 | 1.5790 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.8605 | 1.1000e-004 | 0.0117 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 1.8605 | 1.1000e-004 | 0.0117 | 0.0000 | 0.0000 | 4.0000e-005 | 4.0000e-005 | 0.0000 | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |

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

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.8605 | 1.1000e-004 | 0.0117 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 1.8605 | 1.1000e-004 | 0.0117 | 0.0000 | 0.0000 | 4.0000e-005 | 4.0000e-005 | 0.0000 | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |

| | ROG | NOx | CO | SO2 | 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 | 7/1/2022 | 7/14/2022 | 5 | 10 | |
| 2 | Grading | Grading | 7/15/2022 | 8/25/2022 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 8/26/2022 | 10/19/2023 | 5 | 300 | |

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| | | | | | | |
|---|-----------------------|-----------------------|------------|------------|---|----|
| 4 | Architectural Coating | Architectural Coating | 9/22/2023 | 11/16/2023 | 5 | 40 |
| 5 | Paving | Paving | 10/20/2023 | 11/16/2023 | 5 | 20 |

Acres of Grading (Site Preparation Phase): 200

Acres of Grading (Grading Phase): 600

Acres of Paving: 6.91

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 675,000; Non-Residential Outdoor: 225,000; Striped Parking Area: 18,060 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Crawler Tractors | 4 | 8.00 | 212 | 0.43 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Grading | Crawler Tractors | 2 | 8.00 | 212 | 0.43 |
| 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 | 0 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Crawler Tractors | 3 | 8.00 | 212 | 0.43 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 0 | 8.00 | 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 |

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| | | | | | |
|-----------------------|-----------------|---|------|----|------|
| Architectural Coating | Air Compressors | 1 | 8.00 | 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 | 4.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 12.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 366.00 | 119.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 8.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 73.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1964 | 0.0000 | 0.1964 | 0.0611 | 0.0000 | 0.0611 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0224 | 0.2521 | 0.1000 | 2.8000e-004 | | 0.0108 | 0.0108 | | 9.9300e-003 | 9.9300e-003 | 0.0000 | 25.0258 | 25.0258 | 8.0900e-003 | 0.0000 | 25.2281 |
| Total | 0.0224 | 0.2521 | 0.1000 | 2.8000e-004 | 0.1964 | 0.0108 | 0.2072 | 0.0611 | 9.9300e-003 | 0.0710 | 0.0000 | 25.0258 | 25.0258 | 8.0900e-003 | 0.0000 | 25.2281 |

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3.2 Site Preparation - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0000e-005 | 8.9000e-004 | 3.0000e-004 | 0.0000 | 1.3000e-004 | 1.0000e-005 | 1.4000e-004 | 4.0000e-005 | 1.0000e-005 | 5.0000e-005 | 0.0000 | 0.3502 | 0.3502 | 0.0000 | 5.0000e-005 | 0.3658 |
| Worker | 3.1000e-004 | 2.4000e-004 | 3.0700e-003 | 1.0000e-005 | 9.9000e-004 | 1.0000e-005 | 9.9000e-004 | 2.6000e-004 | 0.0000 | 2.7000e-004 | 0.0000 | 0.7822 | 0.7822 | 2.0000e-005 | 2.0000e-005 | 0.7892 |
| Total | 3.4000e-004 | 1.1300e-003 | 3.3700e-003 | 1.0000e-005 | 1.1200e-003 | 2.0000e-005 | 1.1300e-003 | 3.0000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 1.1325 | 1.1325 | 2.0000e-005 | 7.0000e-005 | 1.1550 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | | | | | 0.0766 | 0.0000 | 0.0766 | 0.0238 | 0.0000 | 0.0238 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0224 | 0.2521 | 0.1000 | 2.8000e-004 | | 0.0108 | 0.0108 | | 9.9300e-003 | 9.9300e-003 | 0.0000 | 25.0257 | 25.0257 | 8.0900e-003 | 0.0000 | 25.2281 |
| Total | 0.0224 | 0.2521 | 0.1000 | 2.8000e-004 | 0.0766 | 0.0108 | 0.0874 | 0.0238 | 9.9300e-003 | 0.0338 | 0.0000 | 25.0257 | 25.0257 | 8.0900e-003 | 0.0000 | 25.2281 |

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3.2 Site Preparation - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.0000e-005 | 8.9000e-004 | 3.0000e-004 | 0.0000 | 1.3000e-004 | 1.0000e-005 | 1.4000e-004 | 4.0000e-005 | 1.0000e-005 | 5.0000e-005 | 0.0000 | 0.3502 | 0.3502 | 0.0000 | 5.0000e-005 | 0.3658 |
| Worker | 3.1000e-004 | 2.4000e-004 | 3.0700e-003 | 1.0000e-005 | 9.9000e-004 | 1.0000e-005 | 9.9000e-004 | 2.6000e-004 | 0.0000 | 2.7000e-004 | 0.0000 | 0.7822 | 0.7822 | 2.0000e-005 | 2.0000e-005 | 0.7892 |
| Total | 3.4000e-004 | 1.1300e-003 | 3.3700e-003 | 1.0000e-005 | 1.1200e-003 | 2.0000e-005 | 1.1300e-003 | 3.0000e-004 | 1.0000e-005 | 3.2000e-004 | 0.0000 | 1.1325 | 1.1325 | 2.0000e-005 | 7.0000e-005 | 1.1550 |

3.3 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.4085 | 0.0000 | 0.4085 | 0.0840 | 0.0000 | 0.0840 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0642 | 0.7126 | 0.4379 | 1.0700e-003 | | 0.0286 | 0.0286 | | 0.0263 | 0.0263 | 0.0000 | 94.2610 | 94.2610 | 0.0305 | 0.0000 | 95.0231 |
| Total | 0.0642 | 0.7126 | 0.4379 | 1.0700e-003 | 0.4085 | 0.0286 | 0.4371 | 0.0840 | 0.0263 | 0.1103 | 0.0000 | 94.2610 | 94.2610 | 0.0305 | 0.0000 | 95.0231 |

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3.3 Grading - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.9000e-004 | 7.9900e-003 | 2.6900e-003 | 3.0000e-005 | 1.1400e-003 | 1.1000e-004 | 1.2500e-003 | 3.3000e-004 | 1.1000e-004 | 4.3000e-004 | 0.0000 | 3.1521 | 3.1521 | 3.0000e-005 | 4.7000e-004 | 3.2923 |
| Worker | 1.0500e-003 | 8.2000e-004 | 0.0102 | 3.0000e-005 | 3.3000e-003 | 2.0000e-005 | 3.3100e-003 | 8.8000e-004 | 2.0000e-005 | 8.9000e-004 | 0.0000 | 2.6074 | 2.6074 | 7.0000e-005 | 7.0000e-005 | 2.6306 |
| Total | 1.3400e-003 | 8.8100e-003 | 0.0129 | 6.0000e-005 | 4.4400e-003 | 1.3000e-004 | 4.5600e-003 | 1.2100e-003 | 1.3000e-004 | 1.3200e-003 | 0.0000 | 5.7595 | 5.7595 | 1.0000e-004 | 5.4000e-004 | 5.9229 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | | | | | 0.1593 | 0.0000 | 0.1593 | 0.0328 | 0.0000 | 0.0328 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0642 | 0.7126 | 0.4379 | 1.0700e-003 | | 0.0286 | 0.0286 | | 0.0263 | 0.0263 | 0.0000 | 94.2609 | 94.2609 | 0.0305 | 0.0000 | 95.0230 |
| Total | 0.0642 | 0.7126 | 0.4379 | 1.0700e-003 | 0.1593 | 0.0286 | 0.1879 | 0.0328 | 0.0263 | 0.0591 | 0.0000 | 94.2609 | 94.2609 | 0.0305 | 0.0000 | 95.0230 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

3.3 Grading - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.9000e-004 | 7.9900e-003 | 2.6900e-003 | 3.0000e-005 | 1.1400e-003 | 1.1000e-004 | 1.2500e-003 | 3.3000e-004 | 1.1000e-004 | 4.3000e-004 | 0.0000 | 3.1521 | 3.1521 | 3.0000e-005 | 4.7000e-004 | 3.2923 |
| Worker | 1.0500e-003 | 8.2000e-004 | 0.0102 | 3.0000e-005 | 3.3000e-003 | 2.0000e-005 | 3.3100e-003 | 8.8000e-004 | 2.0000e-005 | 8.9000e-004 | 0.0000 | 2.6074 | 2.6074 | 7.0000e-005 | 7.0000e-005 | 2.6306 |
| Total | 1.3400e-003 | 8.8100e-003 | 0.0129 | 6.0000e-005 | 4.4400e-003 | 1.3000e-004 | 4.5600e-003 | 1.2100e-003 | 1.3000e-004 | 1.3200e-003 | 0.0000 | 5.7595 | 5.7595 | 1.0000e-004 | 5.4000e-004 | 5.9229 |

3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1272 | 1.3543 | 0.8040 | 1.9600e-003 | | 0.0580 | 0.0580 | | 0.0541 | 0.0541 | 0.0000 | 169.6701 | 169.6701 | 0.0460 | 0.0000 | 170.8209 |
| Total | 0.1272 | 1.3543 | 0.8040 | 1.9600e-003 | | 0.0580 | 0.0580 | | 0.0541 | 0.0541 | 0.0000 | 169.6701 | 169.6701 | 0.0460 | 0.0000 | 170.8209 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 8.6000e-003 | 0.2403 | 0.0810 | 9.9000e-004 | 0.0342 | 3.3000e-003 | 0.0375 | 9.8700e-003 | 3.1600e-003 | 0.0130 | 0.0000 | 94.8174 | 94.8174 | 1.0000e-003 | 0.0141 | 99.0352 |
| Worker | 0.0582 | 0.0453 | 0.5673 | 1.5700e-003 | 0.1830 | 9.3000e-004 | 0.1840 | 0.0486 | 8.5000e-004 | 0.0495 | 0.0000 | 144.7342 | 144.7342 | 3.8600e-003 | 4.0100e-003 | 146.0247 |
| Total | 0.0668 | 0.2857 | 0.6483 | 2.5600e-003 | 0.2173 | 4.2300e-003 | 0.2215 | 0.0585 | 4.0100e-003 | 0.0625 | 0.0000 | 239.5516 | 239.5516 | 4.8600e-003 | 0.0181 | 245.0598 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.1272 | 1.3543 | 0.8040 | 1.9600e-003 | | 0.0580 | 0.0580 | | 0.0541 | 0.0541 | 0.0000 | 169.6699 | 169.6699 | 0.0460 | 0.0000 | 170.8207 |
| Total | 0.1272 | 1.3543 | 0.8040 | 1.9600e-003 | | 0.0580 | 0.0580 | | 0.0541 | 0.0541 | 0.0000 | 169.6699 | 169.6699 | 0.0460 | 0.0000 | 170.8207 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 8.6000e-003 | 0.2403 | 0.0810 | 9.9000e-004 | 0.0342 | 3.3000e-003 | 0.0375 | 9.8700e-003 | 3.1600e-003 | 0.0130 | 0.0000 | 94.8174 | 94.8174 | 1.0000e-003 | 0.0141 | 99.0352 |
| Worker | 0.0582 | 0.0453 | 0.5673 | 1.5700e-003 | 0.1830 | 9.3000e-004 | 0.1840 | 0.0486 | 8.5000e-004 | 0.0495 | 0.0000 | 144.7342 | 144.7342 | 3.8600e-003 | 4.0100e-003 | 146.0247 |
| Total | 0.0668 | 0.2857 | 0.6483 | 2.5600e-003 | 0.2173 | 4.2300e-003 | 0.2215 | 0.0585 | 4.0100e-003 | 0.0625 | 0.0000 | 239.5516 | 239.5516 | 4.8600e-003 | 0.0181 | 245.0598 |

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 | 0.2667 | 2.7384 | 1.8128 | 4.4900e-003 | | 0.1167 | 0.1167 | | 0.1089 | 0.1089 | 0.0000 | 389.4644 | 389.4644 | 0.1052 | 0.0000 | 392.0954 |
| Total | 0.2667 | 2.7384 | 1.8128 | 4.4900e-003 | | 0.1167 | 0.1167 | | 0.1089 | 0.1089 | 0.0000 | 389.4644 | 389.4644 | 0.1052 | 0.0000 | 392.0954 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 0.0135 | 0.4264 | 0.1699 | 2.1800e-003 | 0.0786 | 3.5400e-003 | 0.0821 | 0.0227 | 3.3900e-003 | 0.0261 | 0.0000 | 209.2279 | 209.2279 | 2.1100e-003 | 0.0309 | 218.5002 |
| Worker | 0.1242 | 0.0920 | 1.2007 | 3.4900e-003 | 0.4204 | 2.0100e-003 | 0.4224 | 0.1116 | 1.8500e-003 | 0.1135 | 0.0000 | 323.6965 | 323.6965 | 7.9800e-003 | 8.4900e-003 | 326.4256 |
| Total | 0.1376 | 0.5183 | 1.3706 | 5.6700e-003 | 0.4989 | 5.5500e-003 | 0.5045 | 0.1343 | 5.2400e-003 | 0.1395 | 0.0000 | 532.9244 | 532.9244 | 0.0101 | 0.0394 | 544.9258 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.2667 | 2.7384 | 1.8128 | 4.4900e-003 | | 0.1167 | 0.1167 | | 0.1089 | 0.1089 | 0.0000 | 389.4639 | 389.4639 | 0.1052 | 0.0000 | 392.0949 |
| Total | 0.2667 | 2.7384 | 1.8128 | 4.4900e-003 | | 0.1167 | 0.1167 | | 0.1089 | 0.1089 | 0.0000 | 389.4639 | 389.4639 | 0.1052 | 0.0000 | 392.0949 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 0.0135 | 0.4264 | 0.1699 | 2.1800e-003 | 0.0786 | 3.5400e-003 | 0.0821 | 0.0227 | 3.3900e-003 | 0.0261 | 0.0000 | 209.2279 | 209.2279 | 2.1100e-003 | 0.0309 | 218.5002 |
| Worker | 0.1242 | 0.0920 | 1.2007 | 3.4900e-003 | 0.4204 | 2.0100e-003 | 0.4224 | 0.1116 | 1.8500e-003 | 0.1135 | 0.0000 | 323.6965 | 323.6965 | 7.9800e-003 | 8.4900e-003 | 326.4256 |
| Total | 0.1376 | 0.5183 | 1.3706 | 5.6700e-003 | 0.4989 | 5.5500e-003 | 0.5045 | 0.1343 | 5.2400e-003 | 0.1395 | 0.0000 | 532.9244 | 532.9244 | 0.0101 | 0.0394 | 544.9258 |

3.5 Architectural Coating - 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 | | | | | |
| Archit. Coating | 0.2504 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.1100e-003 | 0.0348 | 0.0483 | 8.0000e-005 | | 1.8900e-003 | 1.8900e-003 | | 1.8900e-003 | 1.8900e-003 | 0.0000 | 6.8087 | 6.8087 | 4.1000e-004 | 0.0000 | 6.8189 |
| Total | 0.2555 | 0.0348 | 0.0483 | 8.0000e-005 | | 1.8900e-003 | 1.8900e-003 | | 1.8900e-003 | 1.8900e-003 | 0.0000 | 6.8087 | 6.8087 | 4.1000e-004 | 0.0000 | 6.8189 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

3.5 Architectural Coating - 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 | 4.7400e-003 | 3.5100e-003 | 0.0458 | 1.3000e-004 | 0.0161 | 8.0000e-005 | 0.0161 | 4.2600e-003 | 7.0000e-005 | 4.3300e-003 | 0.0000 | 12.3564 | 12.3564 | 3.0000e-004 | 3.2000e-004 | 12.4606 |
| Total | 4.7400e-003 | 3.5100e-003 | 0.0458 | 1.3000e-004 | 0.0161 | 8.0000e-005 | 0.0161 | 4.2600e-003 | 7.0000e-005 | 4.3300e-003 | 0.0000 | 12.3564 | 12.3564 | 3.0000e-004 | 3.2000e-004 | 12.4606 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.2504 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.1100e-003 | 0.0348 | 0.0483 | 8.0000e-005 | | 1.8900e-003 | 1.8900e-003 | | 1.8900e-003 | 1.8900e-003 | 0.0000 | 6.8087 | 6.8087 | 4.1000e-004 | 0.0000 | 6.8189 |
| Total | 0.2555 | 0.0348 | 0.0483 | 8.0000e-005 | | 1.8900e-003 | 1.8900e-003 | | 1.8900e-003 | 1.8900e-003 | 0.0000 | 6.8087 | 6.8087 | 4.1000e-004 | 0.0000 | 6.8189 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

3.5 Architectural Coating - 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 | 4.7400e-003 | 3.5100e-003 | 0.0458 | 1.3000e-004 | 0.0161 | 8.0000e-005 | 0.0161 | 4.2600e-003 | 7.0000e-005 | 4.3300e-003 | 0.0000 | 12.3564 | 12.3564 | 3.0000e-004 | 3.2000e-004 | 12.4606 |
| Total | 4.7400e-003 | 3.5100e-003 | 0.0458 | 1.3000e-004 | 0.0161 | 8.0000e-005 | 0.0161 | 4.2600e-003 | 7.0000e-005 | 4.3300e-003 | 0.0000 | 12.3564 | 12.3564 | 3.0000e-004 | 3.2000e-004 | 12.4606 |

3.6 Paving - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0103 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0269 | 20.0269 | 6.4800e-003 | 0.0000 | 20.1888 |
| Paving | 9.0500e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0194 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0269 | 20.0269 | 6.4800e-003 | 0.0000 | 20.1888 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

3.6 Paving - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 9.0000e-005 | 2.7400e-003 | 1.0900e-003 | 1.0000e-005 | 5.1000e-004 | 2.0000e-005 | 5.3000e-004 | 1.5000e-004 | 2.0000e-005 | 1.7000e-004 | 0.0000 | 1.3460 | 1.3460 | 1.0000e-005 | 2.0000e-004 | 1.4057 |
| Worker | 4.9000e-004 | 3.6000e-004 | 4.7100e-003 | 1.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.2695 | 1.2695 | 3.0000e-005 | 3.0000e-005 | 1.2802 |
| Total | 5.8000e-004 | 3.1000e-003 | 5.8000e-003 | 2.0000e-005 | 2.1600e-003 | 3.0000e-005 | 2.1900e-003 | 5.9000e-004 | 3.0000e-005 | 6.2000e-004 | 0.0000 | 2.6155 | 2.6155 | 4.0000e-005 | 2.3000e-004 | 2.6859 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.0103 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0268 | 20.0268 | 6.4800e-003 | 0.0000 | 20.1888 |
| Paving | 9.0500e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0194 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0268 | 20.0268 | 6.4800e-003 | 0.0000 | 20.1888 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

3.6 Paving - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 9.0000e-005 | 2.7400e-003 | 1.0900e-003 | 1.0000e-005 | 5.1000e-004 | 2.0000e-005 | 5.3000e-004 | 1.5000e-004 | 2.0000e-005 | 1.7000e-004 | 0.0000 | 1.3460 | 1.3460 | 1.0000e-005 | 2.0000e-004 | 1.4057 |
| Worker | 4.9000e-004 | 3.6000e-004 | 4.7100e-003 | 1.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.2695 | 1.2695 | 3.0000e-005 | 3.0000e-005 | 1.2802 |
| Total | 5.8000e-004 | 3.1000e-003 | 5.8000e-003 | 2.0000e-005 | 2.1600e-003 | 3.0000e-005 | 2.1900e-003 | 5.9000e-004 | 3.0000e-005 | 6.2000e-004 | 0.0000 | 2.6155 | 2.6155 | 4.0000e-005 | 2.3000e-004 | 2.6859 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Manufacturing | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

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 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Manufacturing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.8605 | 1.1000e-004 | 0.0117 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |
| Unmitigated | 1.8605 | 1.1000e-004 | 0.0117 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.2128 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.6467 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.0800e-003 | 1.1000e-004 | 0.0117 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |
| Total | 1.8605 | 1.1000e-004 | 0.0117 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.2128 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.6467 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.0800e-003 | 1.1000e-004 | 0.0117 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |
| Total | 1.8605 | 1.1000e-004 | 0.0117 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.0227 | 0.0227 | 6.0000e-005 | 0.0000 | 0.0242 |

7.0 Water Detail

7.1 Mitigation Measures Water

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|--------|
| Category | MT/yr | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|---------------|---------------|---------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|---------------|---------------|---------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

Category/Year

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

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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

First March Logistics (Building 1 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

User Defined Equipment

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

11.0 Vegetation

APPENDIX 3.2:

CALEEMOD PROJECT BUILDOUT (PHASE 2) CONSTRUCTION EMISSIONS MODEL OUTPUTS

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First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

First March Logistics (Building 2 Construction - Unmitigated)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|--------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 139.97 | 1000sqft | 3.21 | 139,971.00 | 0 |
| Other Asphalt Surfaces | 84.93 | 1000sqft | 1.95 | 84,926.00 | 0 |
| Parking Lot | 75.00 | Space | 0.46 | 20,026.00 | 0 |
| City Park | 0.78 | Acre | 0.78 | 33,787.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| 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 -
- Land Use - Total Project Area (Building 2) is 6.40 acres
- Construction Phase - Construction anticipated to end in 2024
- Off-road Equipment - Hours are based on an 8-hour workday
- Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes
- Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes
- Off-road Equipment -
- Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

Trips and VMT - Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, Building Construction, and Paving

Grading - Analysis conservatively assumes that 6 acres will be disturbed per day

Architectural Coating - PVCC SP MM Air 9

Vehicle Trips - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Construction Off-road Equipment Mitigation - Rule 403

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 10.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 10.00 |
| tblConstructionPhase | NumDays | 20.00 | 40.00 |
| tblEnergyUse | LightingElect | 0.35 | 0.00 |
| tblEnergyUse | LightingElect | 1.17 | 0.00 |
| tblEnergyUse | NT24E | 0.82 | 0.00 |
| tblEnergyUse | NT24NG | 0.03 | 0.00 |
| tblEnergyUse | T24E | 0.33 | 0.00 |
| tblEnergyUse | T24NG | 1.98 | 0.00 |
| tblGrading | AcresOfGrading | 50.00 | 120.00 |
| tblGrading | AcresOfGrading | 35.00 | 60.00 |
| tblLandUse | LandUseSquareFeet | 30,000.00 | 20,026.00 |
| tblLandUse | LandUseSquareFeet | 33,976.80 | 33,787.00 |
| tblLandUse | LotAcreage | 0.68 | 0.46 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | | | |
|---------------------|--------------------------|--------|-------|
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblSolidWaste | SolidWasteGenerationRate | 0.07 | 0.00 |
| tblSolidWaste | SolidWasteGenerationRate | 131.57 | 0.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 2.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 3.00 |
| tblTripsAndVMT | VendorTripNumber | 46.00 | 38.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 3.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CC_TTP | 48.00 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CNW_TTP | 19.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | CW_TTP | 33.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 0.00 |
| tblVehicleTrips | DV_TP | 28.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 6.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 66.00 | 0.00 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | | | |
|-----------------|---------------------|---------------|------|
| tblVehicleTrips | PR_TP | 92.00 | 0.00 |
| tblVehicleTrips | ST_TR | 1.96 | 0.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.00 |
| tblVehicleTrips | SU_TR | 2.19 | 0.00 |
| tblVehicleTrips | SU_TR | 1.74 | 0.00 |
| tblVehicleTrips | WD_TR | 0.78 | 0.00 |
| tblVehicleTrips | WD_TR | 1.74 | 0.00 |
| tblWater | IndoorWaterUseRate | 32,368,062.50 | 0.00 |
| tblWater | OutdoorWaterUseRate | 929,355.45 | 0.00 |

2.0 Emissions Summary

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.0474 | 0.5123 | 0.2582 | 7.8000e-004 | 0.2497 | 0.0208 | 0.2705 | 0.0940 | 0.0192 | 0.1132 | 0.0000 | 68.8838 | 68.8838 | 0.0211 | 2.1000e-004 | 69.4751 |
| 2024 | 0.4201 | 3.0931 | 2.6268 | 7.2200e-003 | 0.1816 | 0.1239 | 0.3055 | 0.0489 | 0.1156 | 0.1645 | 0.0000 | 641.9621 | 641.9621 | 0.1253 | 0.0136 | 649.1467 |
| Maximum | 0.4201 | 3.0931 | 2.6268 | 7.2200e-003 | 0.2497 | 0.1239 | 0.3055 | 0.0940 | 0.1156 | 0.1645 | 0.0000 | 641.9621 | 641.9621 | 0.1253 | 0.0136 | 649.1467 |

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 | 0.0474 | 0.5123 | 0.2582 | 7.8000e-004 | 0.0996 | 0.0208 | 0.1204 | 0.0373 | 0.0192 | 0.0564 | 0.0000 | 68.8837 | 68.8837 | 0.0211 | 2.1000e-004 | 69.4750 |
| 2024 | 0.4201 | 3.0931 | 2.6267 | 7.2200e-003 | 0.1816 | 0.1239 | 0.3055 | 0.0489 | 0.1156 | 0.1645 | 0.0000 | 641.9615 | 641.9615 | 0.1253 | 0.0136 | 649.1462 |
| Maximum | 0.4201 | 3.0931 | 2.6267 | 7.2200e-003 | 0.1816 | 0.1239 | 0.3055 | 0.0489 | 0.1156 | 0.1645 | 0.0000 | 641.9615 | 641.9615 | 0.1253 | 0.0136 | 649.1462 |

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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 |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 34.79 | 0.00 | 26.05 | 39.73 | 0.00 | 20.45 | 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 | 11-17-2023 | 2-16-2024 | 1.0591 | 1.0591 |
| 2 | 2-17-2024 | 5-16-2024 | 0.9218 | 0.9218 |
| 3 | 5-17-2024 | 8-16-2024 | 0.9413 | 0.9413 |
| 4 | 8-17-2024 | 9-30-2024 | 0.4604 | 0.4604 |
| | | Highest | 1.0591 | 1.0591 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.5796 | 3.0000e-005 | 3.8300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.5796 | 3.0000e-005 | 3.8300e-003 | 0.0000 | 0.0000 | 1.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |

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2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.5796 | 3.0000e-005 | 3.8300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |
| Energy | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Mobile | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.5796 | 3.0000e-005 | 3.8300e-003 | 0.0000 | 0.0000 | 1.0000e-005 | 1.0000e-005 | 0.0000 | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |

| | ROG | NOx | CO | SO2 | 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 | 11/17/2023 | 11/30/2023 | 5 | 10 | |
| 2 | Grading | Grading | 12/1/2023 | 12/28/2023 | 5 | 20 | |
| 3 | Building Construction | Building Construction | 12/29/2023 | 11/14/2024 | 5 | 230 | |

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| | | | | | | |
|---|-----------------------|-----------------------|------------|------------|---|----|
| 4 | Architectural Coating | Architectural Coating | 10/18/2024 | 12/12/2024 | 5 | 40 |
| 5 | Paving | Paving | 11/15/2024 | 12/12/2024 | 5 | 20 |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 120

Acres of Paving: 2.41

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 209,957; Non-Residential Outdoor: 69,986; Striped Parking Area: 6,297 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Crawler Tractors | 4 | 8.00 | 212 | 0.43 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Grading | Crawler Tractors | 3 | 8.00 | 212 | 0.43 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 8.00 | 231 | 0.29 |
| Building Construction | Crawler Tractors | 3 | 8.00 | 212 | 0.43 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 0 | 8.00 | 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 | 8.00 | 78 | 0.48 |

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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 | 2.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 3.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 117.00 | 38.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 3.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 23.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

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 | | | | | 0.1222 | 0.0000 | 0.1222 | 0.0531 | 0.0000 | 0.0531 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0192 | 0.2094 | 0.0915 | 2.8000e-004 | | 8.7900e-003 | 8.7900e-003 | | 8.0900e-003 | 8.0900e-003 | 0.0000 | 25.0115 | 25.0115 | 8.0900e-003 | 0.0000 | 25.2137 |
| Total | 0.0192 | 0.2094 | 0.0915 | 2.8000e-004 | 0.1222 | 8.7900e-003 | 0.1309 | 0.0531 | 8.0900e-003 | 0.0612 | 0.0000 | 25.0115 | 25.0115 | 8.0900e-003 | 0.0000 | 25.2137 |

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

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.0000e-005 | 3.4000e-004 | 1.4000e-004 | 0.0000 | 6.0000e-005 | 0.0000 | 7.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.1683 | 0.1683 | 0.0000 | 2.0000e-005 | 0.1757 |
| Worker | 2.9000e-004 | 2.2000e-004 | 2.8300e-003 | 1.0000e-005 | 9.9000e-004 | 0.0000 | 9.9000e-004 | 2.6000e-004 | 0.0000 | 2.7000e-004 | 0.0000 | 0.7617 | 0.7617 | 2.0000e-005 | 2.0000e-005 | 0.7681 |
| Total | 3.0000e-004 | 5.6000e-004 | 2.9700e-003 | 1.0000e-005 | 1.0500e-003 | 0.0000 | 1.0600e-003 | 2.8000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 0.9300 | 0.9300 | 2.0000e-005 | 4.0000e-005 | 0.9438 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | | | | | 0.0476 | 0.0000 | 0.0476 | 0.0207 | 0.0000 | 0.0207 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0192 | 0.2094 | 0.0915 | 2.8000e-004 | | 8.7900e-003 | 8.7900e-003 | | 8.0900e-003 | 8.0900e-003 | 0.0000 | 25.0115 | 25.0115 | 8.0900e-003 | 0.0000 | 25.2137 |
| Total | 0.0192 | 0.2094 | 0.0915 | 2.8000e-004 | 0.0476 | 8.7900e-003 | 0.0564 | 0.0207 | 8.0900e-003 | 0.0288 | 0.0000 | 25.0115 | 25.0115 | 8.0900e-003 | 0.0000 | 25.2137 |

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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 | 1.0000e-005 | 3.4000e-004 | 1.4000e-004 | 0.0000 | 6.0000e-005 | 0.0000 | 7.0000e-005 | 2.0000e-005 | 0.0000 | 2.0000e-005 | 0.0000 | 0.1683 | 0.1683 | 0.0000 | 2.0000e-005 | 0.1757 |
| Worker | 2.9000e-004 | 2.2000e-004 | 2.8300e-003 | 1.0000e-005 | 9.9000e-004 | 0.0000 | 9.9000e-004 | 2.6000e-004 | 0.0000 | 2.7000e-004 | 0.0000 | 0.7617 | 0.7617 | 2.0000e-005 | 2.0000e-005 | 0.7681 |
| Total | 3.0000e-004 | 5.6000e-004 | 2.9700e-003 | 1.0000e-005 | 1.0500e-003 | 0.0000 | 1.0600e-003 | 2.8000e-004 | 0.0000 | 2.9000e-004 | 0.0000 | 0.9300 | 0.9300 | 2.0000e-005 | 4.0000e-005 | 0.9438 |

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 | | | | | 0.1239 | 0.0000 | 0.1239 | 0.0400 | 0.0000 | 0.0400 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0259 | 0.2870 | 0.1479 | 4.4000e-004 | | 0.0114 | 0.0114 | | 0.0105 | 0.0105 | 0.0000 | 38.4898 | 38.4898 | 0.0125 | 0.0000 | 38.8010 |
| Total | 0.0259 | 0.2870 | 0.1479 | 4.4000e-004 | 0.1239 | 0.0114 | 0.1353 | 0.0400 | 0.0105 | 0.0505 | 0.0000 | 38.4898 | 38.4898 | 0.0125 | 0.0000 | 38.8010 |

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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 | 3.0000e-005 | 1.0300e-003 | 4.1000e-004 | 1.0000e-005 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 5.0000e-005 | 1.0000e-005 | 6.0000e-005 | 0.0000 | 0.5048 | 0.5048 | 1.0000e-005 | 7.0000e-005 | 0.5271 |
| Worker | 4.9000e-004 | 3.6000e-004 | 4.7100e-003 | 1.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.2695 | 1.2695 | 3.0000e-005 | 3.0000e-005 | 1.2802 |
| Total | 5.2000e-004 | 1.3900e-003 | 5.1200e-003 | 2.0000e-005 | 1.8400e-003 | 2.0000e-005 | 1.8600e-003 | 4.9000e-004 | 2.0000e-005 | 5.1000e-004 | 0.0000 | 1.7743 | 1.7743 | 4.0000e-005 | 1.0000e-004 | 1.8073 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | | | | | 0.0483 | 0.0000 | 0.0483 | 0.0156 | 0.0000 | 0.0156 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0259 | 0.2870 | 0.1479 | 4.4000e-004 | | 0.0114 | 0.0114 | | 0.0105 | 0.0105 | 0.0000 | 38.4898 | 38.4898 | 0.0125 | 0.0000 | 38.8010 |
| Total | 0.0259 | 0.2870 | 0.1479 | 4.4000e-004 | 0.0483 | 0.0114 | 0.0597 | 0.0156 | 0.0105 | 0.0261 | 0.0000 | 38.4898 | 38.4898 | 0.0125 | 0.0000 | 38.8010 |

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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 | 3.0000e-005 | 1.0300e-003 | 4.1000e-004 | 1.0000e-005 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 5.0000e-005 | 1.0000e-005 | 6.0000e-005 | 0.0000 | 0.5048 | 0.5048 | 1.0000e-005 | 7.0000e-005 | 0.5271 |
| Worker | 4.9000e-004 | 3.6000e-004 | 4.7100e-003 | 1.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.5000e-004 | 0.0000 | 1.2695 | 1.2695 | 3.0000e-005 | 3.0000e-005 | 1.2802 |
| Total | 5.2000e-004 | 1.3900e-003 | 5.1200e-003 | 2.0000e-005 | 1.8400e-003 | 2.0000e-005 | 1.8600e-003 | 4.9000e-004 | 2.0000e-005 | 5.1000e-004 | 0.0000 | 1.7743 | 1.7743 | 4.0000e-005 | 1.0000e-004 | 1.8073 |

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 | 1.2800e-003 | 0.0131 | 8.6700e-003 | 2.0000e-005 | | 5.6000e-004 | 5.6000e-004 | | 5.2000e-004 | 5.2000e-004 | 0.0000 | 1.8635 | 1.8635 | 5.0000e-004 | 0.0000 | 1.8761 |
| Total | 1.2800e-003 | 0.0131 | 8.6700e-003 | 2.0000e-005 | | 5.6000e-004 | 5.6000e-004 | | 5.2000e-004 | 5.2000e-004 | 0.0000 | 1.8635 | 1.8635 | 5.0000e-004 | 0.0000 | 1.8761 |

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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 | 2.0000e-005 | 6.5000e-004 | 2.6000e-004 | 0.0000 | 1.2000e-004 | 1.0000e-005 | 1.3000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.3197 | 0.3197 | 0.0000 | 5.0000e-005 | 0.3338 |
| Worker | 1.9000e-004 | 1.4000e-004 | 1.8400e-003 | 1.0000e-005 | 6.4000e-004 | 0.0000 | 6.5000e-004 | 1.7000e-004 | 0.0000 | 1.7000e-004 | 0.0000 | 0.4951 | 0.4951 | 1.0000e-005 | 1.0000e-005 | 0.4993 |
| Total | 2.1000e-004 | 7.9000e-004 | 2.1000e-003 | 1.0000e-005 | 7.6000e-004 | 1.0000e-005 | 7.8000e-004 | 2.0000e-004 | 1.0000e-005 | 2.1000e-004 | 0.0000 | 0.8148 | 0.8148 | 1.0000e-005 | 6.0000e-005 | 0.8331 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 1.2800e-003 | 0.0131 | 8.6700e-003 | 2.0000e-005 | | 5.6000e-004 | 5.6000e-004 | | 5.2000e-004 | 5.2000e-004 | 0.0000 | 1.8635 | 1.8635 | 5.0000e-004 | 0.0000 | 1.8761 |
| Total | 1.2800e-003 | 0.0131 | 8.6700e-003 | 2.0000e-005 | | 5.6000e-004 | 5.6000e-004 | | 5.2000e-004 | 5.2000e-004 | 0.0000 | 1.8635 | 1.8635 | 5.0000e-004 | 0.0000 | 1.8761 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 2.0000e-005 | 6.5000e-004 | 2.6000e-004 | 0.0000 | 1.2000e-004 | 1.0000e-005 | 1.3000e-004 | 3.0000e-005 | 1.0000e-005 | 4.0000e-005 | 0.0000 | 0.3197 | 0.3197 | 0.0000 | 5.0000e-005 | 0.3338 |
| Worker | 1.9000e-004 | 1.4000e-004 | 1.8400e-003 | 1.0000e-005 | 6.4000e-004 | 0.0000 | 6.5000e-004 | 1.7000e-004 | 0.0000 | 1.7000e-004 | 0.0000 | 0.4951 | 0.4951 | 1.0000e-005 | 1.0000e-005 | 0.4993 |
| Total | 2.1000e-004 | 7.9000e-004 | 2.1000e-003 | 1.0000e-005 | 7.6000e-004 | 1.0000e-005 | 7.8000e-004 | 2.0000e-004 | 1.0000e-005 | 2.1000e-004 | 0.0000 | 0.8148 | 0.8148 | 1.0000e-005 | 6.0000e-005 | 0.8331 |

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 | 0.2757 | 2.7852 | 1.9611 | 4.9200e-003 | | 0.1156 | 0.1156 | | 0.1078 | 0.1078 | 0.0000 | 426.8506 | 426.8506 | 0.1150 | 0.0000 | 429.7249 |
| Total | 0.2757 | 2.7852 | 1.9611 | 4.9200e-003 | | 0.1156 | 0.1156 | | 0.1078 | 0.1078 | 0.0000 | 426.8506 | 426.8506 | 0.1150 | 0.0000 | 429.7249 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 4.6400e-003 | 0.1492 | 0.0588 | 7.5000e-004 | 0.0275 | 1.2300e-003 | 0.0287 | 7.9300e-003 | 1.1800e-003 | 9.1100e-003 | 0.0000 | 72.0781 | 72.0781 | 7.7000e-004 | 0.0106 | 75.2684 |
| Worker | 0.0406 | 0.0287 | 0.3940 | 1.1800e-003 | 0.1472 | 6.7000e-004 | 0.1479 | 0.0391 | 6.2000e-004 | 0.0397 | 0.0000 | 110.6623 | 110.6623 | 2.5300e-003 | 2.7600e-003 | 111.5485 |
| Total | 0.0452 | 0.1779 | 0.4527 | 1.9300e-003 | 0.1747 | 1.9000e-003 | 0.1766 | 0.0470 | 1.8000e-003 | 0.0488 | 0.0000 | 182.7403 | 182.7403 | 3.3000e-003 | 0.0134 | 186.8169 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.2757 | 2.7852 | 1.9611 | 4.9200e-003 | | 0.1156 | 0.1156 | | 0.1078 | 0.1078 | 0.0000 | 426.8501 | 426.8501 | 0.1150 | 0.0000 | 429.7244 |
| Total | 0.2757 | 2.7852 | 1.9611 | 4.9200e-003 | | 0.1156 | 0.1156 | | 0.1078 | 0.1078 | 0.0000 | 426.8501 | 426.8501 | 0.1150 | 0.0000 | 429.7244 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 4.6400e-003 | 0.1492 | 0.0588 | 7.5000e-004 | 0.0275 | 1.2300e-003 | 0.0287 | 7.9300e-003 | 1.1800e-003 | 9.1100e-003 | 0.0000 | 72.0781 | 72.0781 | 7.7000e-004 | 0.0106 | 75.2684 |
| Worker | 0.0406 | 0.0287 | 0.3940 | 1.1800e-003 | 0.1472 | 6.7000e-004 | 0.1479 | 0.0391 | 6.2000e-004 | 0.0397 | 0.0000 | 110.6623 | 110.6623 | 2.5300e-003 | 2.7600e-003 | 111.5485 |
| Total | 0.0452 | 0.1779 | 0.4527 | 1.9300e-003 | 0.1747 | 1.9000e-003 | 0.1766 | 0.0470 | 1.8000e-003 | 0.0488 | 0.0000 | 182.7403 | 182.7403 | 3.3000e-003 | 0.0134 | 186.8169 |

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 | 0.0795 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.8200e-003 | 0.0325 | 0.0483 | 8.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | 0.0000 | 6.8087 | 6.8087 | 3.8000e-004 | 0.0000 | 6.8183 |
| Total | 0.0843 | 0.0325 | 0.0483 | 8.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | 0.0000 | 6.8087 | 6.8087 | 3.8000e-004 | 0.0000 | 6.8183 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 1.3900e-003 | 9.9000e-004 | 0.0135 | 4.0000e-005 | 5.0600e-003 | 2.0000e-005 | 5.0800e-003 | 1.3400e-003 | 2.0000e-005 | 1.3600e-003 | 0.0000 | 3.7999 | 3.7999 | 9.0000e-005 | 9.0000e-005 | 3.8303 |
| Total | 1.3900e-003 | 9.9000e-004 | 0.0135 | 4.0000e-005 | 5.0600e-003 | 2.0000e-005 | 5.0800e-003 | 1.3400e-003 | 2.0000e-005 | 1.3600e-003 | 0.0000 | 3.7999 | 3.7999 | 9.0000e-005 | 9.0000e-005 | 3.8303 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0795 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.8200e-003 | 0.0325 | 0.0483 | 8.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | 0.0000 | 6.8087 | 6.8087 | 3.8000e-004 | 0.0000 | 6.8183 |
| Total | 0.0843 | 0.0325 | 0.0483 | 8.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.6200e-003 | 1.6200e-003 | 0.0000 | 6.8087 | 6.8087 | 3.8000e-004 | 0.0000 | 6.8183 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 1.3900e-003 | 9.9000e-004 | 0.0135 | 4.0000e-005 | 5.0600e-003 | 2.0000e-005 | 5.0800e-003 | 1.3400e-003 | 2.0000e-005 | 1.3600e-003 | 0.0000 | 3.7999 | 3.7999 | 9.0000e-005 | 9.0000e-005 | 3.8303 |
| Total | 1.3900e-003 | 9.9000e-004 | 0.0135 | 4.0000e-005 | 5.0600e-003 | 2.0000e-005 | 5.0800e-003 | 1.3400e-003 | 2.0000e-005 | 1.3600e-003 | 0.0000 | 3.7999 | 3.7999 | 9.0000e-005 | 9.0000e-005 | 3.8303 |

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 | 9.8800e-003 | 0.0953 | 0.1463 | 2.3000e-004 | | 4.6900e-003 | 4.6900e-003 | | 4.3100e-003 | 4.3100e-003 | 0.0000 | 20.0265 | 20.0265 | 6.4800e-003 | 0.0000 | 20.1885 |
| Paving | 3.1600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0130 | 0.0953 | 0.1463 | 2.3000e-004 | | 4.6900e-003 | 4.6900e-003 | | 4.3100e-003 | 4.3100e-003 | 0.0000 | 20.0265 | 20.0265 | 6.4800e-003 | 0.0000 | 20.1885 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 3.0000e-005 | 1.0300e-003 | 4.1000e-004 | 1.0000e-005 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 5.0000e-005 | 1.0000e-005 | 6.0000e-005 | 0.0000 | 0.4970 | 0.4970 | 1.0000e-005 | 7.0000e-005 | 0.5190 |
| Worker | 4.5000e-004 | 3.2000e-004 | 4.4100e-003 | 1.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.4000e-004 | 0.0000 | 1.2391 | 1.2391 | 3.0000e-005 | 3.0000e-005 | 1.2490 |
| Total | 4.8000e-004 | 1.3500e-003 | 4.8200e-003 | 2.0000e-005 | 1.8400e-003 | 2.0000e-005 | 1.8600e-003 | 4.9000e-004 | 2.0000e-005 | 5.0000e-004 | 0.0000 | 1.7361 | 1.7361 | 4.0000e-005 | 1.0000e-004 | 1.7680 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 9.8800e-003 | 0.0953 | 0.1463 | 2.3000e-004 | | 4.6900e-003 | 4.6900e-003 | | 4.3100e-003 | 4.3100e-003 | 0.0000 | 20.0265 | 20.0265 | 6.4800e-003 | 0.0000 | 20.1884 |
| Paving | 3.1600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0130 | 0.0953 | 0.1463 | 2.3000e-004 | | 4.6900e-003 | 4.6900e-003 | | 4.3100e-003 | 4.3100e-003 | 0.0000 | 20.0265 | 20.0265 | 6.4800e-003 | 0.0000 | 20.1884 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 3.0000e-005 | 1.0300e-003 | 4.1000e-004 | 1.0000e-005 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 5.0000e-005 | 1.0000e-005 | 6.0000e-005 | 0.0000 | 0.4970 | 0.4970 | 1.0000e-005 | 7.0000e-005 | 0.5190 |
| Worker | 4.5000e-004 | 3.2000e-004 | 4.4100e-003 | 1.0000e-005 | 1.6500e-003 | 1.0000e-005 | 1.6600e-003 | 4.4000e-004 | 1.0000e-005 | 4.4000e-004 | 0.0000 | 1.2391 | 1.2391 | 3.0000e-005 | 3.0000e-005 | 1.2490 |
| Total | 4.8000e-004 | 1.3500e-003 | 4.8200e-003 | 2.0000e-005 | 1.8400e-003 | 2.0000e-005 | 1.8600e-003 | 4.9000e-004 | 2.0000e-005 | 5.0000e-004 | 0.0000 | 1.7361 | 1.7361 | 4.0000e-005 | 1.0000e-004 | 1.7680 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 0.00 | 0.00 | 0.00 | | |
| Total | 0.00 | 0.00 | 0.00 | | |

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 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| Other Asphalt Surfaces | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| Parking Lot | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| Unrefrigerated Warehouse-No Rail | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

6.0 Area Detail

6.1 Mitigation Measures Area

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|--------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.5796 | 3.0000e-005 | 3.8300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |
| Unmitigated | 0.5796 | 3.0000e-005 | 3.8300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0663 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5129 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.5000e-004 | 3.0000e-005 | 3.8300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |
| Total | 0.5796 | 3.0000e-005 | 3.8300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0663 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5129 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.5000e-004 | 3.0000e-005 | 3.8300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |
| Total | 0.5796 | 3.0000e-005 | 3.8300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 7.4600e-003 | 7.4600e-003 | 2.0000e-005 | 0.0000 | 7.9500e-003 |

7.0 Water Detail

7.1 Mitigation Measures Water

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|--------|
| Category | MT/yr | | | |
| Mitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|---------------|---------------|---------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|---------------|---------------|---------------|---------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

Category/Year

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

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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

First March Logistics (Building 2 Construction - Unmitigated) - Riverside-South Coast County, Annual

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

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

11.0 Vegetation

APPENDIX 3.3:

CALEEMOD BUILDING 1 (PHASE 1) OPERATIONAL EMISSIONS MODEL OUTPUTS

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First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|--------|-------------------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 350.00 | User Defined Unit | 0.00 | 0.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 390.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic Analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic Analysis

| Table Name | Column Name | Default Value | New Value |
|----------------------|--------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 7/28/2022 | 6/30/2022 |
| tblFleetMix | HHD | 0.02 | 0.00 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

| | | | |
|---------------------|----------------------------|-------------|-------|
| tblFleetMix | HHD | 0.02 | 0.78 |
| tblFleetMix | LDA | 0.53 | 0.58 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.19 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.09 |
| tblFleetMix | LHD2 | 7.3100e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.3100e-003 | 0.02 |
| tblFleetMix | MCY | 0.02 | 0.03 |
| tblFleetMix | MCY | 0.02 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.15 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4680e-003 | 0.00 |
| tblFleetMix | MH | 5.4680e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.11 |
| tblFleetMix | OBUS | 6.1600e-004 | 0.00 |
| tblFleetMix | OBUS | 6.1600e-004 | 0.00 |
| tblFleetMix | SBUS | 1.1000e-003 | 0.00 |
| tblFleetMix | SBUS | 1.1000e-003 | 0.00 |
| tblFleetMix | UBUS | 3.1500e-004 | 0.00 |
| tblFleetMix | UBUS | 3.1500e-004 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

| | | | |
|-----------------|--------|------|--------|
| tblVehicleTrips | CW_TTP | 0.00 | 100.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |
| tblVehicleTrips | ST_TR | 0.00 | 0.03 |
| tblVehicleTrips | SU_TR | 1.74 | 0.06 |
| tblVehicleTrips | SU_TR | 0.00 | 0.01 |
| tblVehicleTrips | WD_TR | 1.74 | 1.75 |
| tblVehicleTrips | WD_TR | 0.00 | 0.38 |

2.0 Emissions Summary

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| | | | | |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

| | | | | |
|--|--|---------|--|--|
| | | Highest | | |
|--|--|---------|--|--|

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.4278 | 8.0000e-005 | 8.9300e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Energy | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 181.5460 | 181.5460 | 0.0129 | 2.1600e-003 | 182.5120 |
| Mobile | 0.3179 | 3.2373 | 3.6233 | 0.0235 | 1.3386 | 0.0399 | 1.3785 | 0.3633 | 0.0381 | 0.4014 | 0.0000 | 2,245.2889 | 2,245.2889 | 0.0516 | 0.2707 | 2,327.2562 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 66.7840 | 0.0000 | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.6777 | 186.9022 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| Total | 1.7495 | 3.2719 | 3.6612 | 0.0237 | 1.3386 | 0.0426 | 1.3812 | 0.3633 | 0.0407 | 0.4040 | 92.4618 | 2,613.7545 | 2,706.2162 | 6.6645 | 0.3371 | 2,973.2767 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.4278 | 8.0000e-005 | 8.9300e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Energy | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 181.5460 | 181.5460 | 0.0129 | 2.1600e-003 | 182.5120 |
| Mobile | 0.3179 | 3.2373 | 3.6233 | 0.0235 | 1.3386 | 0.0399 | 1.3785 | 0.3633 | 0.0381 | 0.4014 | 0.0000 | 2,245.2889 | 2,245.2889 | 0.0516 | 0.2707 | 2,327.2562 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 66.7840 | 0.0000 | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.6777 | 186.9022 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| Total | 1.7495 | 3.2719 | 3.6612 | 0.0237 | 1.3386 | 0.0426 | 1.3812 | 0.3633 | 0.0407 | 0.4040 | 92.4618 | 2,613.7545 | 2,706.2162 | 6.6645 | 0.3371 | 2,973.2767 |

| | ROG | NOx | CO | SO2 | 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 | Demolition | Demolition | 7/1/2022 | 6/30/2022 | 5 | 0 | |

Acres of Grading (Site Preparation Phase): 0

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|--------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |

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 |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 0 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

3.2 Demolition - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

4.0 Operational Detail - Mobile

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3179 | 3.2373 | 3.6233 | 0.0235 | 1.3386 | 0.0399 | 1.3785 | 0.3633 | 0.0381 | 0.4014 | 0.0000 | 2,245,288 9 | 2,245,288 9 | 0.0516 | 0.2707 | 2,327,256 2 |
| Unmitigated | 0.3179 | 3.2373 | 3.6233 | 0.0235 | 1.3386 | 0.0399 | 1.3785 | 0.3633 | 0.0381 | 0.4014 | 0.0000 | 2,245,288 9 | 2,245,288 9 | 0.0516 | 0.2707 | 2,327,256 2 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|--------------|--------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Unrefrigerated Warehouse-No Rail | 614.01 | 52.40 | 20.97 | 1,924,523 | 1,924,523 |
| User Defined Industrial | 134.02 | 11.45 | 4.59 | 1,427,098 | 1,427,098 |
| Total | 748.02 | 63.84 | 25.55 | 3,351,621 | 3,351,621 |

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 |
| Unrefrigerated Warehouse-No Rail | 16.60 | 8.40 | 6.90 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |
| User Defined Industrial | 40.00 | 8.40 | 6.90 | 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 |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Unrefrigerated Warehouse-No Rail | 0.576000 | 0.060300 | 0.185900 | 0.151900 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.025900 | 0.000000 | 0.000000 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

| | | | | | | | | | | | | | |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| User Defined Industrial | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.087200 | 0.024000 | 0.111000 | 0.777800 | 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 | 144.0046 | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 144.0046 | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |
| NaturalGas Mitigated | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |
| NaturalGas Unmitigated | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Unrefrigerated Warehouse-No Rail | 703500 | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |

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 | | | | | |
| Unrefrigerated Warehouse-No Rail | 703500 | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 812000 | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 812000 | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |

6.0 Area Detail

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 1.4278 | 8.0000e-005 | 8.9300e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Unmitigated | 1.4278 | 8.0000e-005 | 8.9300e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1622 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.2647 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 8.3000e-004 | 8.0000e-005 | 8.9300e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Total | 1.4278 | 8.0000e-005 | 8.9300e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1622 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.2647 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 8.3000e-004 | 8.0000e-005 | 8.9300e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Total | 1.4278 | 8.0000e-005 | 8.9300e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |

7.0 Water Detail

7.1 Mitigation Measures Water

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| Unmitigated | 212.5799 | 2.6531 | 0.0642 | 298.0354 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 80.9375 / 0 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 212.5799 | 2.6531 | 0.0642 | 298.0354 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 80.9375 / 0 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 212.5799 | 2.6531 | 0.0642 | 298.0354 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| | MT/yr | | | |
| Mitigated | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| Unmitigated | 66.7840 | 3.9468 | 0.0000 | 165.4546 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 329 | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 66.7840 | 3.9468 | 0.0000 | 165.4546 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 329 | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 66.7840 | 3.9468 | 0.0000 | 165.4546 |

9.0 Operational Offroad

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

First March Logistics (Building 1 Operations - Manufacturing)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|-------------------|-------------|--------------------|------------|
| Manufacturing | 100.00 | 1000sqft | 2.30 | 100,000.00 | 0 |
| Parking Lot | 262.00 | Space | 2.34 | 102,031.00 | 0 |
| City Park | 2.75 | Acre | 2.75 | 119,841.00 | 0 |
| Other Asphalt Surfaces | 198.94 | 1000sqft | 4.57 | 198,942.00 | 0 |
| User Defined Industrial | 100.00 | User Defined Unit | 0.00 | 0.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| Climate Zone | 10 | | | Operational Year | 2023 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 390.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area (Building 1 without High-Cube Fulfillment Center) is 11.96 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic Analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic Analysis

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

| Table Name | Column Name | Default Value | New Value |
|----------------------|--------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 7/28/2022 | 6/30/2022 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.62 |
| tblFleetMix | LDA | 0.53 | 0.58 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.19 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.15 |
| tblFleetMix | LHD2 | 7.3100e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.3100e-003 | 0.04 |
| tblFleetMix | MCY | 0.02 | 0.03 |
| tblFleetMix | MCY | 0.02 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.15 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4680e-003 | 0.00 |
| tblFleetMix | MH | 5.4680e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.19 |
| tblFleetMix | OBUS | 6.1600e-004 | 0.00 |
| tblFleetMix | OBUS | 6.1600e-004 | 0.00 |
| tblFleetMix | SBUS | 1.1000e-003 | 0.00 |
| tblFleetMix | SBUS | 1.1000e-003 | 0.00 |
| tblFleetMix | UBUS | 3.1500e-004 | 0.00 |
| tblFleetMix | UBUS | 3.1500e-004 | 0.00 |

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| | | | |
|--------------------------------|----------------------------|------------|------------|
| tblLandUse | LandUseSquareFeet | 104,800.00 | 102,031.00 |
| tblLandUse | LandUseSquareFeet | 119,790.00 | 119,841.00 |
| tblLandUse | LotAcreage | 2.36 | 2.34 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOperationalOffRoadEquipment | OperDaysPerYear | 260.00 | 365.00 |
| tblOperationalOffRoadEquipment | OperFuelType | Diesel | CNG |
| tblOperationalOffRoadEquipment | OperHorsePower | 97.00 | 200.00 |
| tblOperationalOffRoadEquipment | OperHoursPerDay | 8.00 | 4.00 |
| tblOperationalOffRoadEquipment | OperOffRoadEquipmentNumber | 0.00 | 2.00 |
| tblVehicleTrips | CC_TTP | 48.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 19.00 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TTP | 33.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 0.00 | 100.00 |
| tblVehicleTrips | DV_TP | 28.00 | 0.00 |
| tblVehicleTrips | PB_TP | 6.00 | 0.00 |
| tblVehicleTrips | PR_TP | 66.00 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.96 | 0.00 |
| tblVehicleTrips | ST_TR | 6.42 | 5.74 |
| tblVehicleTrips | ST_TR | 0.00 | 0.68 |
| tblVehicleTrips | SU_TR | 2.19 | 0.00 |
| tblVehicleTrips | SU_TR | 5.09 | 4.55 |
| tblVehicleTrips | SU_TR | 0.00 | 0.54 |
| tblVehicleTrips | WD_TR | 0.78 | 0.00 |
| tblVehicleTrips | WD_TR | 3.93 | 3.54 |
| tblVehicleTrips | WD_TR | 0.00 | 0.42 |

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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 |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| | | Highest | | |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.4333 | 8.0000e-005 | 8.4700e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Energy | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 354.7851 | 354.7851 | 0.0187 | 5.0300e-003 | 356.7506 |
| Mobile | 0.2656 | 1.5359 | 3.0353 | 0.0135 | 0.9630 | 0.0187 | 0.9816 | 0.2603 | 0.0178 | 0.2780 | 0.0000 | 1,277.5743 | 1,277.5743 | 0.0364 | 0.1259 | 1,315.9913 |
| Offroad | 0.0403 | 0.3782 | 0.2735 | 1.1600e-003 | | 0.0137 | 0.0137 | | 0.0126 | 0.0126 | 0.0000 | 101.5038 | 101.5038 | 0.0328 | 0.0000 | 102.3246 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.2196 | 0.0000 | 25.2196 | 1.4904 | 0.0000 | 62.4805 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 7.3365 | 59.8565 | 67.1930 | 0.7586 | 0.0184 | 91.6421 |
| Total | 0.7566 | 2.0726 | 3.4504 | 0.0156 | 0.9630 | 0.0445 | 1.0074 | 0.2603 | 0.0425 | 0.3027 | 32.5561 | 1,793.7363 | 1,826.2924 | 2.3370 | 0.1493 | 1,929.2066 |

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2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.4333 | 8.0000e-005 | 8.4700e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Energy | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 354.7851 | 354.7851 | 0.0187 | 5.0300e-003 | 356.7506 |
| Mobile | 0.2656 | 1.5359 | 3.0353 | 0.0135 | 0.9630 | 0.0187 | 0.9816 | 0.2603 | 0.0178 | 0.2780 | 0.0000 | 1,277.5743 | 1,277.5743 | 0.0364 | 0.1259 | 1,315.9913 |
| Offroad | 0.0403 | 0.3782 | 0.2735 | 1.1600e-003 | | 0.0137 | 0.0137 | | 0.0126 | 0.0126 | 0.0000 | 101.5038 | 101.5038 | 0.0328 | 0.0000 | 102.3246 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.2196 | 0.0000 | 25.2196 | 1.4904 | 0.0000 | 62.4805 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 7.3365 | 59.8565 | 67.1930 | 0.7586 | 0.0184 | 91.6421 |
| Total | 0.7566 | 2.0726 | 3.4504 | 0.0156 | 0.9630 | 0.0445 | 1.0074 | 0.2603 | 0.0425 | 0.3027 | 32.5561 | 1,793.7363 | 1,826.2924 | 2.3370 | 0.1493 | 1,929.2066 |

| | ROG | NOx | CO | SO2 | 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 | Demolition | Demolition | 7/1/2022 | 6/30/2022 | 5 | 0 | |

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 6.91

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|--------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |

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 |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 0 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

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

3.2 Demolition - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

4.0 Operational Detail - Mobile

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

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2656 | 1.5359 | 3.0353 | 0.0135 | 0.9630 | 0.0187 | 0.9816 | 0.2603 | 0.0178 | 0.2780 | 0.0000 | 1,277.574 3 | 1,277.574 3 | 0.0364 | 0.1259 | 1,315.991 3 |
| Unmitigated | 0.2656 | 1.5359 | 3.0353 | 0.0135 | 0.9630 | 0.0187 | 0.9816 | 0.2603 | 0.0178 | 0.2780 | 0.0000 | 1,277.574 3 | 1,277.574 3 | 0.0364 | 0.1259 | 1,315.991 3 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|---------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Manufacturing | 354.00 | 573.91 | 455.02 | 1,770,634 | 1,770,634 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Industrial | 42.00 | 68.09 | 53.98 | 690,706 | 690,706 |
| Total | 396.00 | 642.00 | 509.00 | 2,461,340 | 2,461,340 |

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 |
| City Park | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Manufacturing | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| Other Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

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

| 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 |
| User Defined Industrial | 40.00 | 8.40 | 6.90 | 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 |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Manufacturing | 0.576000 | 0.060300 | 0.185900 | 0.151900 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.025900 | 0.000000 | 0.000000 |
| Other Asphalt Surfaces | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| Parking Lot | 0.534849 | 0.056022 | 0.172639 | 0.141007 | 0.026597 | 0.007310 | 0.011327 | 0.018693 | 0.000616 | 0.000315 | 0.024057 | 0.001100 | 0.005468 |
| User Defined Industrial | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.149400 | 0.041100 | 0.190500 | 0.619000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 182.2599 | 182.2599 | 0.0154 | 1.8600e-003 | 183.2002 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 182.2599 | 182.2599 | 0.0154 | 1.8600e-003 | 183.2002 |
| Natural Gas Mitigated | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |
| Natural Gas Unmitigated | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |

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

5.2 Energy by Land Use - 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 | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 3.233e+006 | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |

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5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 3.233e+006 | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |

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

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 992000 | 175.9268 | 0.0149 | 1.8000e-003 | 176.8344 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 35710.8 | 6.3332 | 5.3000e-004 | 6.0000e-005 | 6.3658 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 182.2599 | 0.0154 | 1.8600e-003 | 183.2002 |

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

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 992000 | 175.9268 | 0.0149 | 1.8000e-003 | 176.8344 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 35710.8 | 6.3332 | 5.3000e-004 | 6.0000e-005 | 6.3658 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 182.2599 | 0.0154 | 1.8600e-003 | 183.2002 |

6.0 Area Detail

6.1 Mitigation Measures Area

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.4333 | 8.0000e-005 | 8.4700e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Unmitigated | 0.4333 | 8.0000e-005 | 8.4700e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0505 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3819 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.8000e-004 | 8.0000e-005 | 8.4700e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Total | 0.4332 | 8.0000e-005 | 8.4700e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0505 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3819 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.8000e-004 | 8.0000e-005 | 8.4700e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Total | 0.4332 | 8.0000e-005 | 8.4700e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |

7.0 Water Detail

7.1 Mitigation Measures Water

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| Category | MT/yr | | | |
| Mitigated | 67.1930 | 0.7586 | 0.0184 | 91.6421 |
| Unmitigated | 67.1930 | 0.7586 | 0.0184 | 91.6421 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|----------------|---------------|---------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 3.27657 | 6.4559 | 5.4000e-004 | 7.0000e-005 | 6.4892 |
| Manufacturing | 23.125 / 0 | 60.7371 | 0.7580 | 0.0183 | 85.1530 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 67.1930 | 0.7586 | 0.0184 | 91.6421 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|----------------|---------------|---------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 3.27657 | 6.4559 | 5.4000e-004 | 7.0000e-005 | 6.4892 |
| Manufacturing | 23.125 / 0 | 60.7371 | 0.7580 | 0.0183 | 85.1530 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 67.1930 | 0.7586 | 0.0184 | 91.6421 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 25.2196 | 1.4904 | 0.0000 | 62.4805 |
| Unmitigated | 25.2196 | 1.4904 | 0.0000 | 62.4805 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0.24 | 0.0487 | 2.8800e-003 | 0.0000 | 0.1207 |
| Manufacturing | 124 | 25.1709 | 1.4876 | 0.0000 | 62.3598 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 25.2196 | 1.4904 | 0.0000 | 62.4805 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0.24 | 0.0487 | 2.8800e-003 | 0.0000 | 0.1207 |
| Manufacturing | 124 | 25.1709 | 1.4876 | 0.0000 | 62.3598 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 25.2196 | 1.4904 | 0.0000 | 62.4805 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---------------------------|--------|-----------|-----------|-------------|-------------|-----------|
| Tractors/Loaders/Backhoes | 2 | 4.00 | 365 | 200 | 0.37 | CNG |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

UnMitigated/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 |
|---------------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Equipment Type | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Tractors/Loaders/Backhoes | 0.0403 | 0.3782 | 0.2735 | 1.1600e-003 | | 0.0137 | 0.0137 | | 0.0126 | 0.0126 | 0.0000 | 101.5038 | 101.5038 | 0.0328 | 0.0000 | 102.3246 |
| Total | 0.0403 | 0.3782 | 0.2735 | 1.1600e-003 | | 0.0137 | 0.0137 | | 0.0126 | 0.0126 | 0.0000 | 101.5038 | 101.5038 | 0.0328 | 0.0000 | 102.3246 |

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

APPENDIX 3.4:

CALEEMOD PROJECT BUILDOUT (PHASE 2) OPERATIONAL EMISSIONS MODEL OUTPUTS

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First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|--------|-------------------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 350.00 | User Defined Unit | 0.00 | 0.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| 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 -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic Analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic Analysis

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.78 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

| | | | |
|---------------------|----------------------------|-------------|--------|
| tblFleetMix | LDA | 0.54 | 0.58 |
| tblFleetMix | LDA | 0.54 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.19 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.09 |
| tblFleetMix | LHD2 | 7.1910e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.1910e-003 | 0.02 |
| tblFleetMix | MCY | 0.02 | 0.03 |
| tblFleetMix | MCY | 0.02 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.15 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.1890e-003 | 0.00 |
| tblFleetMix | MH | 5.1890e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.11 |
| tblFleetMix | OBUS | 6.1100e-004 | 0.00 |
| tblFleetMix | OBUS | 6.1100e-004 | 0.00 |
| tblFleetMix | SBUS | 1.0970e-003 | 0.00 |
| tblFleetMix | SBUS | 1.0970e-003 | 0.00 |
| tblFleetMix | UBUS | 3.0900e-004 | 0.00 |
| tblFleetMix | UBUS | 3.0900e-004 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TTP | 0.00 | 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 | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |
| tblVehicleTrips | ST_TR | 0.00 | 0.03 |
| tblVehicleTrips | SU_TR | 1.74 | 0.06 |
| tblVehicleTrips | SU_TR | 0.00 | 0.01 |
| tblVehicleTrips | WD_TR | 1.74 | 1.75 |
| tblVehicleTrips | WD_TR | 0.00 | 0.38 |

2.0 Emissions Summary

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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 | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2022 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| | | | | |

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

| | | | |
|--|--|---------|--|
| | | Highest | |
|--|--|---------|--|

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.4278 | 8.0000e-005 | 8.9200e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Energy | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 181.5460 | 181.5460 | 0.0129 | 2.1600e-003 | 182.5120 |
| Mobile | 0.3062 | 3.2050 | 3.4755 | 0.0230 | 1.3386 | 0.0395 | 1.3781 | 0.3633 | 0.0377 | 0.4009 | 0.0000 | 2,192.9919 | 2,192.9919 | 0.0513 | 0.2656 | 2,273.4164 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 66.7840 | 0.0000 | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.6777 | 186.9022 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| Total | 1.7377 | 3.2396 | 3.5133 | 0.0232 | 1.3386 | 0.0422 | 1.3808 | 0.3633 | 0.0403 | 0.4036 | 92.4618 | 2,561.4575 | 2,653.9193 | 6.6642 | 0.3319 | 2,919.4369 |

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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 | 1.4278 | 8.0000e-005 | 8.9200e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Energy | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 181.5460 | 181.5460 | 0.0129 | 2.1600e-003 | 182.5120 |
| Mobile | 0.3062 | 3.2050 | 3.4755 | 0.0230 | 1.3386 | 0.0395 | 1.3781 | 0.3633 | 0.0377 | 0.4009 | 0.0000 | 2,192.9919 | 2,192.9919 | 0.0513 | 0.2656 | 2,273.4164 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 66.7840 | 0.0000 | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.6777 | 186.9022 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| Total | 1.7377 | 3.2396 | 3.5133 | 0.0232 | 1.3386 | 0.0422 | 1.3808 | 0.3633 | 0.0403 | 0.4036 | 92.4618 | 2,561.4575 | 2,653.9193 | 6.6642 | 0.3319 | 2,919.4369 |

| | ROG | NOx | CO | SO2 | 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 | Demolition | Demolition | 7/1/2022 | 6/30/2022 | 5 | 0 | |

Acres of Grading (Site Preparation Phase): 0

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|--------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |

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 |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 0 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

3.2 Demolition - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

4.0 Operational Detail - Mobile

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3062 | 3.2050 | 3.4755 | 0.0230 | 1.3386 | 0.0395 | 1.3781 | 0.3633 | 0.0377 | 0.4009 | 0.0000 | 2,192.9919 | 2,192.9919 | 0.0513 | 0.2656 | 2,273.4164 |
| Unmitigated | 0.3062 | 3.2050 | 3.4755 | 0.0230 | 1.3386 | 0.0395 | 1.3781 | 0.3633 | 0.0377 | 0.4009 | 0.0000 | 2,192.9919 | 2,192.9919 | 0.0513 | 0.2656 | 2,273.4164 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|--------------|--------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Unrefrigerated Warehouse-No Rail | 614.01 | 52.40 | 20.97 | 1,924,523 | 1,924,523 |
| User Defined Industrial | 134.02 | 11.45 | 4.59 | 1,427,098 | 1,427,098 |
| Total | 748.02 | 63.84 | 25.55 | 3,351,621 | 3,351,621 |

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 |
| Unrefrigerated Warehouse-No Rail | 16.60 | 8.40 | 6.90 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |
| User Defined Industrial | 40.00 | 8.40 | 6.90 | 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 |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Unrefrigerated Warehouse-No Rail | 0.578700 | 0.060500 | 0.186300 | 0.148900 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.025600 | 0.000000 | 0.000000 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, Annual

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

| | | | | | | | | | | | | | | |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| User Defined Industrial | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.087000 | 0.024100 | 0.111100 | 0.777800 | 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 | 144.0046 | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 144.0046 | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |
| NaturalGas Mitigated | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |
| NaturalGas Unmitigated | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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 | | | | | |
| Unrefrigerated Warehouse-No Rail | 703500 | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |

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 | | | | | |
| Unrefrigerated Warehouse-No Rail | 703500 | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 3.7900e-003 | 0.0345 | 0.0290 | 2.1000e-004 | | 2.6200e-003 | 2.6200e-003 | | 2.6200e-003 | 2.6200e-003 | 0.0000 | 37.5414 | 37.5414 | 7.2000e-004 | 6.9000e-004 | 37.7645 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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 | | | |
| Unrefrigerated Warehouse-No Rail | 812000 | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 812000 | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 144.0046 | 0.0122 | 1.4700e-003 | 144.7475 |

6.0 Area Detail

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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 | 1.4278 | 8.0000e-005 | 8.9200e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Unmitigated | 1.4278 | 8.0000e-005 | 8.9200e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1622 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.2647 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 8.2000e-004 | 8.0000e-005 | 8.9200e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Total | 1.4278 | 8.0000e-005 | 8.9200e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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 | 0.1622 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.2647 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 8.2000e-004 | 8.0000e-005 | 8.9200e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |
| Total | 1.4278 | 8.0000e-005 | 8.9200e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0174 | 0.0174 | 5.0000e-005 | 0.0000 | 0.0185 |

7.0 Water Detail

7.1 Mitigation Measures Water

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| Unmitigated | 212.5799 | 2.6531 | 0.0642 | 298.0354 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 80.9375 / 0 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 212.5799 | 2.6531 | 0.0642 | 298.0354 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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 | | | |
| Unrefrigerated Warehouse-No Rail | 80.9375 / 0 | 212.5799 | 2.6531 | 0.0642 | 298.0354 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 212.5799 | 2.6531 | 0.0642 | 298.0354 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| | MT/yr | | | |
| Mitigated | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| Unmitigated | 66.7840 | 3.9468 | 0.0000 | 165.4546 |

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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 | | | |
| Unrefrigerated Warehouse-No Rail | 329 | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 66.7840 | 3.9468 | 0.0000 | 165.4546 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Unrefrigerated Warehouse-No Rail | 329 | 66.7840 | 3.9468 | 0.0000 | 165.4546 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 66.7840 | 3.9468 | 0.0000 | 165.4546 |

9.0 Operational Offroad

First March Logistics (Building 1 Operations - High-Cube Fulfillment Center) - Riverside-South Coast County, 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

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

First March Logistics (Building 1 Operations - Manufacturing)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|-------------------|-------------|--------------------|------------|
| Manufacturing | 100.00 | 1000sqft | 2.30 | 100,000.00 | 0 |
| User Defined Industrial | 100.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Other Asphalt Surfaces | 198.94 | 1000sqft | 4.57 | 198,942.00 | 0 |
| Parking Lot | 262.00 | Space | 2.34 | 102,031.00 | 0 |
| City Park | 2.75 | Acre | 2.75 | 119,841.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| 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 -

Land Use - Total Project Area (Building 1 without High-Cube Fulfillment Center) is 11.96 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic Analysis

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic Analysis

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

| Table Name | Column Name | Default Value | New Value |
|----------------------|--------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 7/28/2022 | 6/30/2022 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.62 |
| tblFleetMix | LDA | 0.54 | 0.58 |
| tblFleetMix | LDA | 0.54 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.19 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.15 |
| tblFleetMix | LHD2 | 7.1910e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.1910e-003 | 0.04 |
| tblFleetMix | MCY | 0.02 | 0.03 |
| tblFleetMix | MCY | 0.02 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.15 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.1890e-003 | 0.00 |
| tblFleetMix | MH | 5.1890e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.19 |
| tblFleetMix | OBUS | 6.1100e-004 | 0.00 |
| tblFleetMix | OBUS | 6.1100e-004 | 0.00 |
| tblFleetMix | SBUS | 1.0970e-003 | 0.00 |
| tblFleetMix | SBUS | 1.0970e-003 | 0.00 |
| tblFleetMix | UBUS | 3.0900e-004 | 0.00 |
| tblFleetMix | UBUS | 3.0900e-004 | 0.00 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

| | | | |
|--------------------------------|----------------------------|------------|------------|
| tblLandUse | LandUseSquareFeet | 104,800.00 | 102,031.00 |
| tblLandUse | LandUseSquareFeet | 119,790.00 | 119,841.00 |
| tblLandUse | LotAcreage | 2.36 | 2.34 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOperationalOffRoadEquipment | OperDaysPerYear | 260.00 | 365.00 |
| tblOperationalOffRoadEquipment | OperFuelType | Diesel | CNG |
| tblOperationalOffRoadEquipment | OperHorsePower | 97.00 | 200.00 |
| tblOperationalOffRoadEquipment | OperHoursPerDay | 8.00 | 4.00 |
| tblOperationalOffRoadEquipment | OperOffRoadEquipmentNumber | 0.00 | 2.00 |
| tblVehicleTrips | CC_TTP | 48.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 19.00 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TTP | 33.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 0.00 | 100.00 |
| tblVehicleTrips | DV_TP | 28.00 | 0.00 |
| tblVehicleTrips | PB_TP | 6.00 | 0.00 |
| tblVehicleTrips | PR_TP | 66.00 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.96 | 0.00 |
| tblVehicleTrips | ST_TR | 6.42 | 5.74 |
| tblVehicleTrips | ST_TR | 0.00 | 0.68 |
| tblVehicleTrips | SU_TR | 2.19 | 0.00 |
| tblVehicleTrips | SU_TR | 5.09 | 4.55 |
| tblVehicleTrips | SU_TR | 0.00 | 0.54 |
| tblVehicleTrips | WD_TR | 0.78 | 0.00 |
| tblVehicleTrips | WD_TR | 3.93 | 3.54 |
| tblVehicleTrips | WD_TR | 0.00 | 0.42 |

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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 |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| | | Highest | | |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.4333 | 8.0000e-005 | 8.4600e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Energy | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 354.7851 | 354.7851 | 0.0187 | 5.0300e-003 | 356.7506 |
| Mobile | 0.2553 | 1.5039 | 2.9034 | 0.0132 | 0.9630 | 0.0184 | 0.9814 | 0.2603 | 0.0175 | 0.2778 | 0.0000 | 1,252.2727 | 1,252.2727 | 0.0356 | 0.1231 | 1,289.8488 |
| Offroad | 0.0399 | 0.3552 | 0.2742 | 1.1600e-003 | | 0.0130 | 0.0130 | | 0.0119 | 0.0119 | 0.0000 | 101.5390 | 101.5390 | 0.0328 | 0.0000 | 102.3600 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.2196 | 0.0000 | 25.2196 | 1.4904 | 0.0000 | 62.4805 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 7.3365 | 59.8565 | 67.1930 | 0.7586 | 0.0184 | 91.6421 |
| Total | 0.7459 | 2.0176 | 3.3192 | 0.0153 | 0.9630 | 0.0435 | 1.0064 | 0.2603 | 0.0415 | 0.3018 | 32.5561 | 1,768.4697 | 1,801.0258 | 2.3362 | 0.1465 | 1,903.0995 |

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

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.4333 | 8.0000e-005 | 8.4600e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Energy | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 354.7851 | 354.7851 | 0.0187 | 5.0300e-003 | 356.7506 |
| Mobile | 0.2553 | 1.5039 | 2.9034 | 0.0132 | 0.9630 | 0.0184 | 0.9814 | 0.2603 | 0.0175 | 0.2778 | 0.0000 | 1,252.2727 | 1,252.2727 | 0.0356 | 0.1231 | 1,289.8488 |
| Offroad | 0.0399 | 0.3552 | 0.2742 | 1.1600e-003 | | 0.0130 | 0.0130 | | 0.0119 | 0.0119 | 0.0000 | 101.5390 | 101.5390 | 0.0328 | 0.0000 | 102.3600 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 25.2196 | 0.0000 | 25.2196 | 1.4904 | 0.0000 | 62.4805 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 7.3365 | 59.8565 | 67.1930 | 0.7586 | 0.0184 | 91.6421 |
| Total | 0.7459 | 2.0176 | 3.3192 | 0.0153 | 0.9630 | 0.0435 | 1.0064 | 0.2603 | 0.0415 | 0.3018 | 32.5561 | 1,768.4697 | 1,801.0258 | 2.3362 | 0.1465 | 1,903.0995 |

| | ROG | NOx | CO | SO2 | 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 | Demolition | Demolition | 7/1/2022 | 6/30/2022 | 5 | 0 | |

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 6.91

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|--------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |

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 |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 0 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

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

3.2 Demolition - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

4.0 Operational Detail - Mobile

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2553 | 1.5039 | 2.9034 | 0.0132 | 0.9630 | 0.0184 | 0.9814 | 0.2603 | 0.0175 | 0.2778 | 0.0000 | 1,252.2727 | 1,252.2727 | 0.0356 | 0.1231 | 1,289.8488 |
| Unmitigated | 0.2553 | 1.5039 | 2.9034 | 0.0132 | 0.9630 | 0.0184 | 0.9814 | 0.2603 | 0.0175 | 0.2778 | 0.0000 | 1,252.2727 | 1,252.2727 | 0.0356 | 0.1231 | 1,289.8488 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|---------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Manufacturing | 354.00 | 573.91 | 455.02 | 1,770,634 | 1,770,634 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Industrial | 42.00 | 68.09 | 53.98 | 690,706 | 690,706 |
| Total | 396.00 | 642.00 | 509.00 | 2,461,340 | 2,461,340 |

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 |
| City Park | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Manufacturing | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |
| Other Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

| 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 |
| User Defined Industrial | 40.00 | 8.40 | 6.90 | 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 |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| Manufacturing | 0.578700 | 0.060500 | 0.186300 | 0.148900 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.025600 | 0.000000 | 0.000000 |
| Other Asphalt Surfaces | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| Parking Lot | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| User Defined Industrial | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.149100 | 0.041400 | 0.190500 | 0.619000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 182.2599 | 182.2599 | 0.0154 | 1.8600e-003 | 183.2002 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 182.2599 | 182.2599 | 0.0154 | 1.8600e-003 | 183.2002 |
| NaturalGas Mitigated | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |
| NaturalGas Unmitigated | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 3.233e+006 | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |

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

5.2 Energy by Land Use - 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 | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 3.233e+006 | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0174 | 0.1585 | 0.1331 | 9.5000e-004 | | 0.0120 | 0.0120 | | 0.0120 | 0.0120 | 0.0000 | 172.5252 | 172.5252 | 3.3100e-003 | 3.1600e-003 | 173.5504 |

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

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 992000 | 175.9268 | 0.0149 | 1.8000e-003 | 176.8344 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 35710.8 | 6.3332 | 5.3000e-004 | 6.0000e-005 | 6.3658 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 182.2599 | 0.0154 | 1.8600e-003 | 183.2002 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Manufacturing | 992000 | 175.9268 | 0.0149 | 1.8000e-003 | 176.8344 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 35710.8 | 6.3332 | 5.3000e-004 | 6.0000e-005 | 6.3658 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 182.2599 | 0.0154 | 1.8600e-003 | 183.2002 |

6.0 Area Detail

6.1 Mitigation Measures Area

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.4333 | 8.0000e-005 | 8.4600e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Unmitigated | 0.4333 | 8.0000e-005 | 8.4600e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0505 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3819 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.8000e-004 | 8.0000e-005 | 8.4600e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Total | 0.4332 | 8.0000e-005 | 8.4600e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |

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

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0505 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3819 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 7.8000e-004 | 8.0000e-005 | 8.4600e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |
| Total | 0.4332 | 8.0000e-005 | 8.4600e-003 | 0.0000 | | 3.0000e-005 | 3.0000e-005 | | 3.0000e-005 | 3.0000e-005 | 0.0000 | 0.0165 | 0.0165 | 4.0000e-005 | 0.0000 | 0.0176 |

7.0 Water Detail

7.1 Mitigation Measures Water

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| Category | MT/yr | | | |
| Mitigated | 67.1930 | 0.7586 | 0.0184 | 91.6421 |
| Unmitigated | 67.1930 | 0.7586 | 0.0184 | 91.6421 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|----------------|---------------|---------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 3.27657 | 6.4559 | 5.4000e-004 | 7.0000e-005 | 6.4892 |
| Manufacturing | 23.125 / 0 | 60.7371 | 0.7580 | 0.0183 | 85.1530 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 67.1930 | 0.7586 | 0.0184 | 91.6421 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|----------------|---------------|---------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 3.27657 | 6.4559 | 5.4000e-004 | 7.0000e-005 | 6.4892 |
| Manufacturing | 23.125 / 0 | 60.7371 | 0.7580 | 0.0183 | 85.1530 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 67.1930 | 0.7586 | 0.0184 | 91.6421 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 25.2196 | 1.4904 | 0.0000 | 62.4805 |
| Unmitigated | 25.2196 | 1.4904 | 0.0000 | 62.4805 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0.24 | 0.0487 | 2.8800e-003 | 0.0000 | 0.1207 |
| Manufacturing | 124 | 25.1709 | 1.4876 | 0.0000 | 62.3598 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 25.2196 | 1.4904 | 0.0000 | 62.4805 |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0.24 | 0.0487 | 2.8800e-003 | 0.0000 | 0.1207 |
| Manufacturing | 124 | 25.1709 | 1.4876 | 0.0000 | 62.3598 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 25.2196 | 1.4904 | 0.0000 | 62.4805 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---------------------------|--------|-----------|-----------|-------------|-------------|-----------|
| Tractors/Loaders/Backhoes | 2 | 4.00 | 365 | 200 | 0.37 | CNG |

First March Logistics (Building 1 Operations - Manufacturing) - Riverside-South Coast County, Annual

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

UnMitigated/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 |
|---------------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Equipment Type | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Tractors/Loaders/Backhoes | 0.0399 | 0.3552 | 0.2742 | 1.1600e-003 | | 0.0130 | 0.0130 | | 0.0119 | 0.0119 | 0.0000 | 101.5390 | 101.5390 | 0.0328 | 0.0000 | 102.3600 |
| Total | 0.0399 | 0.3552 | 0.2742 | 1.1600e-003 | | 0.0130 | 0.0130 | | 0.0119 | 0.0119 | 0.0000 | 101.5390 | 101.5390 | 0.0328 | 0.0000 | 102.3600 |

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

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

First March Logistics (Building 2 Operations - Warehouse)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|--------|-------------------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 139.97 | 1000sqft | 3.21 | 139,971.00 | 0 |
| User Defined Industrial | 139.97 | User Defined Unit | 0.00 | 0.00 | 0 |
| Parking Lot | 75.00 | Space | 0.46 | 20,026.00 | 0 |
| City Park | 0.78 | Acre | 0.78 | 33,787.00 | 0 |
| Other Asphalt Surfaces | 84.93 | 1000sqft | 1.95 | 84,926.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.4 | Precipitation Freq (Days) | 28 |
| 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 -

Land Use - Total Project Area (Building 2) is 6.40 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic Analysis

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic Analysis

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

| Table Name | Column Name | Default Value | New Value |
|----------------------|--------------|---------------|------------|
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblConstructionPhase | PhaseEndDate | 12/14/2023 | 11/16/2023 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.62 |
| tblFleetMix | LDA | 0.54 | 0.58 |
| tblFleetMix | LDA | 0.54 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.06 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.19 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.14 |
| tblFleetMix | LHD2 | 7.1910e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.1910e-003 | 0.04 |
| tblFleetMix | MCY | 0.02 | 0.03 |
| tblFleetMix | MCY | 0.02 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.15 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.1890e-003 | 0.00 |
| tblFleetMix | MH | 5.1890e-003 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.00 |
| tblFleetMix | MHD | 0.01 | 0.21 |
| tblFleetMix | OBUS | 6.1100e-004 | 0.00 |
| tblFleetMix | OBUS | 6.1100e-004 | 0.00 |
| tblFleetMix | SBUS | 1.0970e-003 | 0.00 |
| tblFleetMix | SBUS | 1.0970e-003 | 0.00 |
| tblFleetMix | UBUS | 3.0900e-004 | 0.00 |
| tblFleetMix | UBUS | 3.0900e-004 | 0.00 |

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

| | | | |
|--------------------------------|----------------------------|-----------|-----------|
| tblLandUse | LandUseSquareFeet | 30,000.00 | 20,026.00 |
| tblLandUse | LandUseSquareFeet | 33,802.56 | 33,787.00 |
| tblLandUse | LotAcreage | 0.68 | 0.46 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOperationalOffRoadEquipment | OperDaysPerYear | 260.00 | 365.00 |
| tblOperationalOffRoadEquipment | OperFuelType | Diesel | CNG |
| tblOperationalOffRoadEquipment | OperHorsePower | 97.00 | 200.00 |
| tblOperationalOffRoadEquipment | OperHoursPerDay | 8.00 | 4.00 |
| tblOperationalOffRoadEquipment | OperOffRoadEquipmentNumber | 0.00 | 1.00 |
| tblVehicleTrips | CC_TTP | 48.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 19.00 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 40.00 |
| tblVehicleTrips | CW_TTP | 33.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 0.00 | 100.00 |
| tblVehicleTrips | DV_TP | 28.00 | 0.00 |
| tblVehicleTrips | PB_TP | 6.00 | 0.00 |
| tblVehicleTrips | PR_TP | 66.00 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.96 | 0.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.12 |
| tblVehicleTrips | ST_TR | 0.00 | 0.03 |
| tblVehicleTrips | SU_TR | 2.19 | 0.00 |
| tblVehicleTrips | SU_TR | 1.74 | 0.05 |
| tblVehicleTrips | SU_TR | 0.00 | 0.01 |
| tblVehicleTrips | WD_TR | 0.78 | 0.00 |
| tblVehicleTrips | WD_TR | 1.74 | 1.27 |
| tblVehicleTrips | WD_TR | 0.00 | 0.49 |

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

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

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
| | | Highest | | |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.5797 | 5.0000e-005 | 5.6100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0109 | 0.0109 | 3.0000e-005 | 0.0000 | 0.0117 |
| Energy | 1.5200e-003 | 0.0138 | 0.0116 | 8.0000e-005 | | 1.0500e-003 | 1.0500e-003 | | 1.0500e-003 | 1.0500e-003 | 0.0000 | 73.8464 | 73.8464 | 5.2500e-003 | 8.8000e-004 | 74.2391 |
| Mobile | 0.1000 | 1.4332 | 1.1374 | 9.7900e-003 | 0.5243 | 0.0170 | 0.5413 | 0.1443 | 0.0162 | 0.1605 | 0.0000 | 937.8479 | 937.8479 | 0.0177 | 0.1176 | 973.3224 |
| Offroad | 0.0200 | 0.1776 | 0.1371 | 5.8000e-004 | | 6.4900e-003 | 6.4900e-003 | | 5.9700e-003 | 5.9700e-003 | 0.0000 | 50.7695 | 50.7695 | 0.0164 | 0.0000 | 51.1800 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 26.7217 | 0.0000 | 26.7217 | 1.5792 | 0.0000 | 66.2020 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 10.2689 | 76.5760 | 86.8449 | 1.0612 | 0.0257 | 121.0292 |
| Total | 0.7012 | 1.6246 | 1.2917 | 0.0105 | 0.5243 | 0.0246 | 0.5489 | 0.1443 | 0.0233 | 0.1676 | 36.9906 | 1,139.0507 | 1,176.0413 | 2.6798 | 0.1441 | 1,285.9843 |

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

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.5797 | 5.0000e-005 | 5.6100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0109 | 0.0109 | 3.0000e-005 | 0.0000 | 0.0117 |
| Energy | 1.5200e-003 | 0.0138 | 0.0116 | 8.0000e-005 | | 1.0500e-003 | 1.0500e-003 | | 1.0500e-003 | 1.0500e-003 | 0.0000 | 73.8464 | 73.8464 | 5.2500e-003 | 8.8000e-004 | 74.2391 |
| Mobile | 0.1000 | 1.4332 | 1.1374 | 9.7900e-003 | 0.5243 | 0.0170 | 0.5413 | 0.1443 | 0.0162 | 0.1605 | 0.0000 | 937.8479 | 937.8479 | 0.0177 | 0.1176 | 973.3224 |
| Offroad | 0.0200 | 0.1776 | 0.1371 | 5.8000e-004 | | 6.4900e-003 | 6.4900e-003 | | 5.9700e-003 | 5.9700e-003 | 0.0000 | 50.7695 | 50.7695 | 0.0164 | 0.0000 | 51.1800 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 26.7217 | 0.0000 | 26.7217 | 1.5792 | 0.0000 | 66.2020 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 10.2689 | 76.5760 | 86.8449 | 1.0612 | 0.0257 | 121.0292 |
| Total | 0.7012 | 1.6246 | 1.2917 | 0.0105 | 0.5243 | 0.0246 | 0.5489 | 0.1443 | 0.0233 | 0.1676 | 36.9906 | 1,139.0507 | 1,176.0413 | 2.6798 | 0.1441 | 1,285.9843 |

| | ROG | NOx | CO | SO2 | 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 | Demolition | Demolition | 11/17/2023 | 11/16/2023 | 5 | 0 | |

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.41

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|--------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 0 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 0 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |

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 |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 0 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

3.2 Demolition - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

4.0 Operational Detail - Mobile

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1000 | 1.4332 | 1.1374 | 9.7900e-003 | 0.5243 | 0.0170 | 0.5413 | 0.1443 | 0.0162 | 0.1605 | 0.0000 | 937.8479 | 937.8479 | 0.0177 | 0.1176 | 973.3224 |
| Unmitigated | 0.1000 | 1.4332 | 1.1374 | 9.7900e-003 | 0.5243 | 0.0170 | 0.5413 | 0.1443 | 0.0162 | 0.1605 | 0.0000 | 937.8479 | 937.8479 | 0.0177 | 0.1176 | 973.3224 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|--------------|-------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 178.00 | 17.23 | 6.90 | 559,676 | 559,676 |
| User Defined Industrial | 68.00 | 3.77 | 1.50 | 718,125 | 718,125 |
| Total | 246.00 | 21.00 | 8.40 | 1,277,801 | 1,277,801 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 16.60 | 8.40 | 6.90 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

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

| 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 |
| User Defined Industrial | 40.00 | 8.40 | 6.90 | 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 |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| City Park | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| Other Asphalt Surfaces | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| Parking Lot | 0.537845 | 0.056225 | 0.173186 | 0.138405 | 0.025906 | 0.007191 | 0.011447 | 0.018769 | 0.000611 | 0.000309 | 0.023821 | 0.001097 | 0.005189 |
| Unrefrigerated Warehouse-No Rail | 0.578700 | 0.060500 | 0.186300 | 0.148900 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.025600 | 0.000000 | 0.000000 |
| User Defined Industrial | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.138200 | 0.038300 | 0.205900 | 0.617600 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 58.8329 | 58.8329 | 4.9700e-003 | 6.0000e-004 | 59.1364 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 58.8329 | 58.8329 | 4.9700e-003 | 6.0000e-004 | 59.1364 |
| Natural Gas Mitigated | 1.5200e-003 | 0.0138 | 0.0116 | 8.0000e-005 | | 1.0500e-003 | 1.0500e-003 | | 1.0500e-003 | 1.0500e-003 | 0.0000 | 15.0135 | 15.0135 | 2.9000e-004 | 2.8000e-004 | 15.1027 |
| Natural Gas Unmitigated | 1.5200e-003 | 0.0138 | 0.0116 | 8.0000e-005 | | 1.0500e-003 | 1.0500e-003 | | 1.0500e-003 | 1.0500e-003 | 0.0000 | 15.0135 | 15.0135 | 2.9000e-004 | 2.8000e-004 | 15.1027 |

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 | 281342 | 1.5200e-003 | 0.0138 | 0.0116 | 8.0000e-005 | | 1.0500e-003 | 1.0500e-003 | | 1.0500e-003 | 1.0500e-003 | 0.0000 | 15.0135 | 15.0135 | 2.9000e-004 | 2.8000e-004 | 15.1027 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 1.5200e-003 | 0.0138 | 0.0116 | 8.0000e-005 | | 1.0500e-003 | 1.0500e-003 | | 1.0500e-003 | 1.0500e-003 | 0.0000 | 15.0135 | 15.0135 | 2.9000e-004 | 2.8000e-004 | 15.1027 |

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 | 281342 | 1.5200e-003 | 0.0138 | 0.0116 | 8.0000e-005 | | 1.0500e-003 | 1.0500e-003 | | 1.0500e-003 | 1.0500e-003 | 0.0000 | 15.0135 | 15.0135 | 2.9000e-004 | 2.8000e-004 | 15.1027 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 1.5200e-003 | 0.0138 | 0.0116 | 8.0000e-005 | | 1.0500e-003 | 1.0500e-003 | | 1.0500e-003 | 1.0500e-003 | 0.0000 | 15.0135 | 15.0135 | 2.9000e-004 | 2.8000e-004 | 15.1027 |

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 7009.1 | 1.2430 | 1.0000e-004 | 1.0000e-005 | 1.2495 |
| Unrefrigerated Warehouse-No Rail | 324733 | 57.5899 | 4.8600e-003 | 5.9000e-004 | 57.8870 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 58.8329 | 4.9600e-003 | 6.0000e-004 | 59.1365 |

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 7009.1 | 1.2430 | 1.0000e-004 | 1.0000e-005 | 1.2495 |
| Unrefrigerated Warehouse-No Rail | 324733 | 57.5899 | 4.8600e-003 | 5.9000e-004 | 57.8870 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 58.8329 | 4.9600e-003 | 6.0000e-004 | 59.1365 |

6.0 Area Detail

6.1 Mitigation Measures Area

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.5797 | 5.0000e-005 | 5.6100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0109 | 0.0109 | 3.0000e-005 | 0.0000 | 0.0117 |
| Unmitigated | 0.5797 | 5.0000e-005 | 5.6100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0109 | 0.0109 | 3.0000e-005 | 0.0000 | 0.0117 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0663 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5129 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 5.2000e-004 | 5.0000e-005 | 5.6100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0109 | 0.0109 | 3.0000e-005 | 0.0000 | 0.0117 |
| Total | 0.5798 | 5.0000e-005 | 5.6100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0109 | 0.0109 | 3.0000e-005 | 0.0000 | 0.0117 |

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

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0663 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5129 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 5.2000e-004 | 5.0000e-005 | 5.6100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0109 | 0.0109 | 3.0000e-005 | 0.0000 | 0.0117 |
| Total | 0.5798 | 5.0000e-005 | 5.6100e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0109 | 0.0109 | 3.0000e-005 | 0.0000 | 0.0117 |

7.0 Water Detail

7.1 Mitigation Measures Water

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 86.8449 | 1.0612 | 0.0257 | 121.0292 |
| Unmitigated | 86.8449 | 1.0612 | 0.0257 | 121.0292 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 0.929355 | 1.8311 | 1.5000e-004 | 2.0000e-005 | 1.8406 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 32.3681 / 0 | 85.0138 | 1.0610 | 0.0257 | 119.1886 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 86.8449 | 1.0612 | 0.0257 | 121.0292 |

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

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 0.929355 | 1.8311 | 1.5000e-004 | 2.0000e-005 | 1.8406 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 32.3681 / 0 | 85.0138 | 1.0610 | 0.0257 | 119.1886 |
| User Defined Industrial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 86.8449 | 1.0612 | 0.0257 | 121.0292 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 26.7217 | 1.5792 | 0.0000 | 66.2020 |
| Unmitigated | 26.7217 | 1.5792 | 0.0000 | 66.2020 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0.07 | 0.0142 | 8.4000e-004 | 0.0000 | 0.0352 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 131.57 | 26.7075 | 1.5784 | 0.0000 | 66.1668 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 26.7217 | 1.5792 | 0.0000 | 66.2020 |

First March Logistics (Building 2 Operations - Warehouse) - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| City Park | 0.07 | 0.0142 | 8.4000e-004 | 0.0000 | 0.0352 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 131.57 | 26.7075 | 1.5784 | 0.0000 | 66.1668 |
| User Defined Industrial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 26.7217 | 1.5792 | 0.0000 | 66.2020 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---------------------------|--------|-----------|-----------|-------------|-------------|-----------|
| Tractors/Loaders/Backhoes | 1 | 4.00 | 365 | 200 | 0.37 | CNG |

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

UnMitigated/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 |
|---------------------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Equipment Type | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Tractors/Loaders/Backhoes | 0.0200 | 0.1776 | 0.1371 | 5.8000e-004 | | 6.4900e-003 | 6.4900e-003 | | 5.9700e-003 | 5.9700e-003 | 0.0000 | 50.7695 | 50.7695 | 0.0164 | 0.0000 | 51.1800 |
| Total | 0.0200 | 0.1776 | 0.1371 | 5.8000e-004 | | 6.4900e-003 | 6.4900e-003 | | 5.9700e-003 | 5.9700e-003 | 0.0000 | 50.7695 | 50.7695 | 0.0164 | 0.0000 | 51.1800 |

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