

Appendix E: Greenhouse Gas Report

City of San Jacinto

2040 General Plan Environmental Impact Report – Greenhouse Gas

Prepared for:

The City of San Jacinto

595 S. San Jacinto Ave San Jacinto, CA 92583

San Jacinto, CA 92583

Prepared by:

MD Acoustics, LLC

Mike Dickerson, INCE, & Tyler Klassen, EIT

1197 Los Angeles Ave, Ste C-256

Simi Valley, CA 93065

Date: 6/29/2022



Noise Study Reports | Vibration Studies | Air Quality | Greenhouse Gas | Health Risk Assessments



TABLE OF CONTENTS

1.0	Environmental Setting	3
1.1	Greenhouse Gases and Climate Changes Linkages	3
1.2	Effects of Global Climate Change	4
1.3	Energy Consumption	7
2.0	Regulatory Setting	9
2.1	Federal	9
2.2	State	11
2.3	Local	18
3.0	Impacts and Mitigation Measures	19
3.1	Greenhouse Gases Thresholds of Significance	19
3.2	Impacts and Mitigation Measures	21
3.3	Energy Conservation Thresholds of Significance	Error! Bookmark not defined.
4.0	References	31

LIST OF APPENDICES

Appendix A:

CalEEMod Daily Emission Output

Appendix B:

CalEEMod Annual Emission Output

Appendix C:

Energy Consumption Output

LIST OF TABLES

Table 1: City of San Jacinto GHG Emission Inventories and BAU Forecasts (MTCO ₂ e) ¹	22
Table 2: WRGOC Subregional Climate Action Plan GHG Reduction Measures ¹	23
Table 3: Maximum Regional Construction Emissions (pounds/day)	27
Table 4: On-road Mobile Fuel Generated by Project Construction Activities – By Phase	28

1.0 ENVIRONMENTAL SETTING

1.1 GREENHOUSE GASES AND CLIMATE CHANGES LINKAGES

Various gases in the Earth’s atmosphere, classified as atmospheric greenhouse gases (GHGs), play a critical role in determining the Earth’s surface temperature. Solar radiation enters Earth’s atmosphere from space, and a portion of the radiation is absorbed by the Earth’s surface. The Earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation. This is called the greenhouse effect, and leads to global warming as well as an overall global climate change, which includes long-term shifts in temperatures and weather patterns.

Greenhouse gases, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs contributing to the greenhouse effect are CO₂, CH₄, O₃, water vapor, N₂O, and chlorofluorocarbons (CFCs).

Gases in the atmosphere can contribute to the greenhouse effect both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other greenhouse gases, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the earth.

Naturally occurring greenhouse gases include water vapor (H₂O), carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and ozone (O₃). Several classes of halogenated substances that contain fluorine, chlorine, or bromine are also greenhouse gases, but they are, for the most part, solely a product of industrial activities. There are also several gases that do not have a direct global warming effect but indirectly affect terrestrial and/or solar radiation absorption by influencing the formation or destruction of greenhouse gases, including tropospheric and stratospheric ozone. These gases include carbon monoxide (CO), oxides of nitrogen (NO_x), and non-CH₄ volatile organic compounds (NMVOCs). Aerosols, which are extremely small particles or liquid droplets, such as those produced by sulfur dioxide (SO₂) or elemental carbon emissions, can also affect the absorptive characteristics of the atmosphere.

Although the direct greenhouse gases CO₂, CH₄, and N₂O occur naturally in the atmosphere, human activities have changed their atmospheric concentrations. From the pre-industrial era (i.e., ending about 1750) to 2011, concentrations of these three greenhouse gases have increased globally by 40, 150, and 20 percent, respectively.

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. In California, the transportation sector is the largest emitter of GHGs, followed by the industrial sector.

As the name implies, global climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants, which are pollutants of regional and local concern, respectively.



California produced approximately 424 million gross metric tons of carbon dioxide equivalents (MMTCO_{2e}) in 2017, satisfying the annual statewide target set by the California Air Resources Board (CARB), that California emissions be below 431 MMTCO_{2e} by 2020. To meet CARB's statewide targets, California emissions must further be reduced to below 260 MMTCO_{2e} by 2030.

Carbon dioxide equivalents are a measurement used to account for the fact that different GHGs have different potential to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. This potential, known as the global warming potential of a GHG, is also dependent on the lifetime, or persistence, of the gas molecule in the atmosphere. Expressing GHG emissions in carbon dioxide equivalents takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO₂ were being emitted.

Consumption of fossil fuels in the transportation sector was the single largest source of California's GHG emissions in 2017, accounting for 41% of total GHG emissions in the state. This category was followed by the industrial sector (24%), the electricity generation sector (including both in-state and out of-state sources) (15%), the agriculture and forestry sector (8%), the residential energy consumption sector (7%), and the commercial energy consumption sector (5%) (California Energy Commission, 2019b).

1.2 EFFECTS OF GLOBAL CLIMATE CHANGE

The effects of increasing global temperature are far-reaching and extremely difficult to quantify. The scientific community continues to study the effects of global climate change. In general, increases in the ambient global temperature as a result of increased GHGs are anticipated to result in rising sea levels, which could threaten coastal areas through accelerated coastal erosion, threats to levees and inland water systems and disruption to coastal wetlands and habitat.

If the temperature of the ocean warms, it is anticipated that the winter snow season would be shortened. Snowpack in the Sierra Nevada provides both water supply (runoff) and storage (within the snowpack before melting), which is a major source of water supply for the state. The snowpack portion of the supply could potentially decline by 50% to 75% by the end of the 21st century (National Resources Defense Council, 2014). This phenomenon could lead to significant challenges securing an adequate water supply for a growing state population. Further, the increased ocean temperature could result in increased moisture flux into the state; however, since this would likely increasingly come in the form of rain rather than snow in the high elevations, increased precipitation could lead to increased potential and severity of flood events, placing more pressure on California's levee/flood control system.

Sea level has risen approximately seven inches during the last century and it is predicted to rise an additional 22 to 35 inches by 2100, depending on the future GHG emissions levels (California Environmental Protection Agency, 2010). If this occurs, resultant effects could include increased coastal flooding, saltwater intrusion and disruption of wetlands. As the existing climate throughout California changes over time, mass migration of species, or failure of species to migrate in time to adapt to the perturbations in climate, could also result. According to the most recent California Climate Change Assessment (*California's Fourth Climate Change Assessment*) (2019), the impacts of global warming in California are anticipated to include, but are not limited to, the following.

1.2.1 WILDFIRES

In recent years, the area burned by wildfires has increased in parallel with increasing air temperatures. Wildfires have also been occurring at higher elevations in the Sierra Nevada mountains, a trend which is expected to continue under future climate change. Climate change will likely modify the vegetation in California, affecting the characteristics of fires on the land. Land use and development patterns also play an important role in future fire activity. Because of these complexities, projecting future wildfires is complicated, and results depend on the time period for the projection and what interacting factors are included in the analysis. Because of these complexities, projections of wildfire in future decades in California range from modest changes from historical conditions to relatively large increases in wildfire regimes depending on the time period for the projection and what interacting factors are included in the analysis.

1.2.2 PUBLIC HEALTH

Extreme heat conditions are defined as weather that is much hotter than average for a particular time and place—and sometimes more humid, too. Extreme heat is not just a nuisance; it kills hundreds of Americans every year and causes many more to become seriously ill. Nineteen heat-related events occurred from 1999 to 2009 that had significant impacts on human health, resulting in about 11,000 excess hospitalizations. However, the National Weather Service issued Heat Advisories for only six of the events. Heat-Health Events (HHEs), which better predict risk to populations vulnerable to heat, will worsen drastically throughout the state: for example, by midcentury, the Central Valley is projected to experience average Heat-Health Events that are two weeks longer, and HHEs could occur four to ten times more often in the Northern Sierra region.

Higher temperatures are expected to increase the frequency, duration, and intensity of conditions conducive to air pollution formation. Climate change poses direct and indirect risks to public health, as people will experience earlier death and worsening illnesses. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances depending on wind conditions.

1.2.3 ENERGY RESOURCES

Higher temperatures will increase annual electricity demand for homes, driven mainly by the increased use of air conditioning units. High demand is projected in inland and Southern California, and more moderate increases are projected in cooler coastal areas. However, the increased annual residential energy demand for electricity is expected to be offset by reduced use of natural gas for space heating. Increases in peak hourly demand during the hot months of the year could be more pronounced than changes in annual demand. This is a critical finding for California's electric system, because generating capacity must match peak electricity demand.

It should also be noted that with the electrification of vehicles, there will also be a significant increase in residential energy use in the near future. Those increases are offset by the reduction of internal combustion use.

1.2.4 WATER SUPPLY

A vast network of man-made reservoirs and aqueducts capture and transport 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.

The state's water supplies are also at risk from rising sea levels. An influx of saltwater would 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 state fresh water supply.

Current management practices for water supply and flood management in California may need to be revised for a changing climate. This is in part because such practices were designed for historical climatic conditions, which are changing and will continue to change during the rest of this century and beyond. As one example, the reduction in the Sierra Nevada snowpack, which provides natural water storage, will have implications throughout California's water management system. Even under the wetter climate projections, the loss of snowpack would pose challenges to water managers, hamper hydropower generation, and nearly eliminate all skiing and other snow-related recreational activities.

1.2.5 AGRICULTURE

Increased GHG emissions are expected to cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. Although higher carbon dioxide levels can stimulate plant production and increase plant water-use efficiency, California's farmers will face greater water demand for crops and a less reliable water supply as temperatures rise.

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 are likely to 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, as well as milk due to the reduced quality of grazing food such as alfalfa.

Crop growth and development will be affected, as will the intensity and frequency of pest and disease outbreaks. Rising temperatures will likely aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

In addition, continued climate change will likely shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion is expected in many species while range contractions are less likely in rapidly evolving species with significant populations already established. Should range contractions occur, it is likely that new or different weed species will fill the emerging gaps. Continued global warming is also likely to alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

1.2.6 FORESTS AND LANDSCAPES

Climate change will make forests more susceptible to extreme wildfires. *California's Fourth Climate Change Assessment* found that by 2100, if greenhouse gas emissions continue to rise, the frequency of extreme wildfires burning over approximately 25,000 acres would increase by nearly 50 percent, and that average area burned statewide would increase by 77 percent by the end of the century. In the areas that have the highest fire risk, wildfire insurance is estimated to see costs rise by 18 percent by 2055 and the amount of property insured would decrease.

Moreover, continued global warming will alter natural ecosystems and biological diversity within the state. For example, alpine and sub-alpine ecosystems are expected to 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 is also expected to decrease as a result of global warming.

1.2.7 RISING SEA LEVELS

A new model from the United States Geological Survey (USGS) estimates that, under mid to high sea-level rise scenarios, 31 to 67 percent of Southern California beaches may completely erode by 2100 without large-scale human interventions.¹ Statewide damages could reach nearly \$17.9 billion from inundation of residential and commercial buildings under 50 centimeters (~20 inches) of sea-level rise, which is close to the 95th percentile of potential sea-level rise by the middle of this century. A 100-year coastal flood, on top of this level of sea-level rise, would almost double the costs.

Rising sea levels, more intense coastal storms, and warmer water temperatures will increasingly threaten the state's coastal regions. Rising sea levels would inundate coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.

1.3 ENERGY CONSUMPTION

Energy in California is consumed from a wide variety of sources. Fossil fuels (including gasoline and diesel fuel and natural gas) are the most widely used form of energy in the State. However, renewable sources of energy (such as solar and wind) are growing in proportion to California's overall energy mix. A large driver of renewable sources of energy in California is the State's current Renewable Portfolio Standard (RPS), which requires the State to derive at least 33% of electricity generated from renewable resources by 2020, and 60 percent by 2030.

Overall, in 2019, California's per capita energy usage was ranked 50th in the nation (U.S. EIA, 2019). Additionally, California's per capita rate of energy usage has been reduced by approximately one third since the 1970's.² Many State regulations since the 1970's, including new building energy efficiency standards, vehicle fleet efficiency measures, as well as growing public awareness, have helped to keep per capita energy usage in the State in check.

The consumption of nonrenewable energy (primarily gasoline and diesel fuel) associated with the operation of passenger, public transit, and commercial vehicles results in GHG emissions that ultimately

¹<https://www.usgs.gov/programs/cmhrp/news/disappearing-beaches-modeling-shoreline-change-southern-california>

² <https://www.eia.gov/state/seds/seds-data-complete.php#StatisticsIndicators>

result in global climate change. Other fuels such as natural gas, ethanol, and electricity (unless derived from solar, wind, nuclear, or other energy sources that do not produce carbon emissions) also result in GHG emissions and contribute to global climate change.

1.3.1 ELECTRICITY CONSUMPTION

California relies on a regional power system composed of a diverse mix of natural gas, renewable, hydroelectric, and nuclear generation resources. Approximately 71 percent of the electrical power needed to meet California’s demand is produced in the state. Approximately 29 percent of its electricity is imported from the Pacific Northwest and the Southwest (California Energy Commission, 2019b). In 2019, California’s in-state generated electricity was derived from natural gas (43.0 percent), large hydroelectric resources (16.5 percent), coal (0.1 percent), nuclear sources (8.1 percent), and renewable resources that include geothermal, biomass, small hydroelectric resources, wind, and solar (32.1 percent). (California Energy Commission, 2019b). The percentage of renewable resources as a proportion of California’s overall energy portfolio is increasing over time, as directed the State’s Renewable Portfolio Standard (RPS).

According to the California Energy Commission (CEC), total statewide electricity consumption increased from 166,979 gigawatt-hours (GWh) in 1980 to 228,038 GWh in 1990, which is an estimated annual growth rate of 3.76 percent. The statewide electricity consumption in 1997 was 246,225 GWh, reflecting an annual growth rate of 1.14 percent between 1990 and 1997 (California Energy Commission, 2019b). Statewide consumption was 274,985 GWh in 2010, an annual growth rate of 0.9 percent between 1997 and 2010. The community of San Jacinto consumed approximately 12,826 MWh in 2021 (according to Southern California Edison), roughly 0.005% of the state total.

1.3.2 OIL

The primary energy source for the United States is oil, which is refined to produce fuels like gasoline, diesel, and jet fuel. Oil is a finite, nonrenewable energy source. World consumption of petroleum products has grown steadily in the last several decades. As of 2018, world consumption of oil had reached 100 million barrels per day (U.S. EIA, 2019a). The United States, with approximately five percent of the world’s population, accounts for approximately 21 percent of world oil consumption, or approximately 20.5 million barrels per day (U.S. EIA, 2019b). The transportation sector relies heavily on oil. In California, petroleum-based fuels currently provide approximately 96 percent of the state’s transportation energy needs (California Energy Commission, 2018).

1.3.3 NATURAL GAS

Natural gas supplies are derived from underground sources and brought to the surface at gas wells. Once it is extracted, gas is purified and the odorant that allows gas leaks to be detected is added to the normally odorless gas. Natural gas suppliers, such as Southern California Gas Company, then send the gas into transmission pipelines, which are usually buried underground. Compressors propel the gas through the pipeline system, which delivers it to homes and businesses.

The state produces approximately 12 percent of its natural gas, while obtaining 22 percent from Canada and 65 percent from the Rockies and the Southwest (California Energy Commission, 2018). In 2020, California produced 144 billion cubic feet of natural gas. (California Energy Commission, 2020). Southern



California Edison (SCE) provides natural gas for residential, industrial, and agency consumers within Riverside County, including the City of San Jacinto

2.0 REGULATORY SETTING

2.1 FEDERAL

2.1.1 CLEAN AIR ACT

The Federal Clean Air Act (FCAA) was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: National ambient air quality standards (NAAQS) for criteria air pollutants, hazardous air pollutant standards, state attainment plans, motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The U.S. Environmental Protection Agency (USEPA) is responsible for administering the FCAA. The FCAA requires the USEPA to set NAAQS for several problem air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health, and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

2.1.2 ENERGY POLICY AND CONSERVATION ACT

The Energy Policy and Conservation Act of 1975 sought to ensure that all vehicles sold in the U.S. would meet certain fuel economy goals. Through this Act, Congress established the first fuel economy standards for on-road motor vehicles in the United States. Pursuant to the Act, the National Highway Traffic and Safety Administration, which is part of the U.S. Department of Transportation (USDOT), is responsible for establishing additional vehicle standards and for revising existing standards.

Since 1990, the fuel economy standard for new passenger cars has been 27.5 mpg. Since 1996, the fuel economy standard for new light trucks (gross vehicle weight of 8,500 pounds or less) has been 20.7 mpg. Heavy-duty vehicles (i.e., vehicles and trucks over 8,500 pounds gross vehicle weight) are not currently subject to fuel economy standards. Compliance with federal fuel economy standards is determined on the basis of each manufacturer's average fuel economy for the portion of its vehicles produced for sale in the U.S. The Corporate Average Fuel Economy (CAFE) program, which is administered by the USEPA, was created to determine vehicle manufacturers' compliance with the fuel economy standards. The USEPA calculates a CAFE value for each manufacturer based on city and highway fuel economy test results and vehicle sales. Based on the information generated under the CAFE program, the USDOT is authorized to assess penalties for noncompliance.

2.1.3 ENERGY POLICY ACT OF 1992 (EPACT)

The Energy Policy Act of 1992 (EPAct) was passed to reduce the country's dependence on foreign petroleum and improve air quality. EPAct includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. EPAct requires

certain federal, state, and local government and private fleets to purchase a percentage of light duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are included in EPAct. Federal tax deductions will be allowed for businesses and individuals to cover the incremental cost of AFVs. States are also required by the act to consider a variety of incentive programs to help promote AFVs.

2.1.4 ENERGY POLICY ACT OF 2005

The Energy Policy Act of 2005 was signed into law on August 8, 2005. Generally, the act provides for renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for a clean renewable energy and rural community electrification; and establishes a federal purchase requirement for renewable energy.

2.1.5 INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT (ISTEA)

ISTEA (49 U.S.C. § 101 et seq.) promoted the development of intermodal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that metropolitan planning organizations (MPOs), were to address in developing transportation plans and programs, including some energy-related factors. To meet the ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values that were to guide transportation decisions in that metropolitan area. The planning process was then to address these policies. Another requirement was to consider the consistency of transportation planning with federal, state, and local energy goals. Through this requirement, energy consumption was expected to become a criterion, along with cost and other values that determine the best transportation solution.

2.1.6 THE SAFE, ACCOUNTABLE, FLEXIBLE, EFFICIENT TRANSPORTATION EQUITY ACT: A LEGACY FOR USERS (SAFETEA-LU)

SAFETEA-LU (23 U.S.C. § 507), renewed the Transportation Equity Act for the 21st Century (TEA-21) of 1998 (23 U.S.C.; 49 U.S.C.) through FY 2009. SAFETEA-LU authorized the federal surface transportation programs for highways, highway safety, and transit. SAFETEA-LU addressed the many challenges facing our transportation system today—such as improving safety, reducing traffic congestion, improving efficiency in freight movement, increasing intermodal connectivity, and protecting the environment—as well as laying the groundwork for addressing future challenges. SAFETEA-LU promoted more efficient and effective federal surface transportation programs by focusing on transportation issues of national significance, while giving state and local transportation decision makers more flexibility to solve transportation problems in their communities. SAFETEA-LU was extended in March of 2010 for nine months, and expired in December of the same year. In June 2012, SAFETEA-LU was replaced by the Moving Ahead for Progress in the 21st Century Act (MAP-21), which took effect October 1, 2012. The Fixing America’s Surface Transportation Act (FAST Act) replaced MAP-21 on December 4, 2015, to provide long-term funding for surface transportation with a focus on improving mobility on America’s highways, creating jobs and supporting economic growth, and accelerating project delivery and promoting innovation.

2.1.7 U.S. FEDERAL CLIMATE CHANGE POLICY

According to the USEPA, “the United States government has established a comprehensive policy to address climate change” that includes slowing the growth of emissions; strengthening science, technology, and institutions; and enhancing international cooperation. To implement this policy, “the Federal government is using voluntary and incentive-based programs to reduce emissions and has established programs to promote climate technology and science.” The federal government’s goal is to reduce the greenhouse gas (GHG) intensity (a measurement of GHG emissions per unit of economic activity) of the American economy by 18 percent over the 10-year period from 2002 to 2012. In addition, the EPA administers multiple programs that encourage voluntary GHG reductions, including “ENERGY STAR”, “Climate Leaders”, and Methane Voluntary Programs. However, as of this writing, there are no adopted federal plans, policies, regulations, or laws directly regulating GHG emissions.

2.1.8 MANDATORY GREENHOUSE GAS REPORTING RULE

On September 22, 2009, EPA issued a final rule for mandatory reporting of GHGs from large GHG emissions sources in the United States. In general, this national reporting requirement will provide USEPA with accurate and timely GHG emissions data from facilities that emit 25,000 metric tons or more of CO₂ per year. This publicly available data will allow the reporters to track their own emissions, compare them to similar facilities, and aid in identifying cost effective opportunities to reduce emissions in the future. Reporting is at the facility level, except that certain suppliers of fossil fuels and industrial greenhouse gases along with vehicle and engine manufacturers will report at the corporate level. An estimated 85% of the total U.S. GHG emissions, from approximately 10,000 facilities, are covered by this final rule.

2.2 STATE

2.2.1 WARREN-ALQUIST ACT

The 1975 Warren-Alquist Act established the California Energy Resources Conservation and Development Commission, now known as CEC. The Act established state policy to reduce wasteful, uneconomical, and unnecessary uses of energy by employing a range of measures. The California Public Utilities Commission (CPUC) regulates privately-owned utilities in the energy, rail, telecommunications, and water fields.

2.2.2 ENERGY ACTION PLAN

The first Energy Action Plan (EAP) emerged in 2003 from a crisis atmosphere in California’s energy markets. The State’s three major energy policy agencies (CEC, CPUC, and the Consumer Power and Conservation Financing Authority [established under deregulation and now defunct]) came together to develop one high-level, coherent approach to meeting California’s electricity and natural gas needs. It was the first time that energy policy agencies formally collaborated to define a common vision and set of strategies to address California’s future energy needs and emphasize the importance of the impacts of energy policy on the California environment.

In the October 2005 Energy Action Plan II, CEC and CPUC updated their energy policy vision by adding some important dimensions to the policy areas included in the original EAP, such as the emerging importance of climate change, transportation-related energy issues, and research and development



activities. The CEC adopted an update to the EAP II in February 2008 that supplements the earlier EAPs and examines the State’s ongoing actions in the context of global climate change.

2.2.3 STATE OF CALIFORNIA ENERGY ACTION PLAN

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The current plan is the 1997 California Energy Plan. The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero-emission vehicles and addressing their infrastructure needs; and encouragement of urban design that reduces VMT and accommodates pedestrian and bicycle access.

2.2.4 ASSEMBLY BILL 1493

In response to AB 1493, the CARB approved amendments to the California Code of Regulations (CCR) adding GHG emission standards to California’s existing motor vehicle emission standards. Amendments to CCR Title 13 Sections 1900 (CCR 13 1900) and 1961 (CCR 13 1961), and adoption of Section 1961.1 (CCR 13 1961.1) require automobile manufacturers to meet fleet average GHG emission limits for all passenger cars, light-duty trucks within various weight criteria, and medium-duty passenger vehicle weight classes beginning with the 2009 model year. Emission limits are further reduced each model year through 2016. For passenger cars and light-duty trucks 3,750 pounds or less loaded vehicle weight (LVW), the 2016 GHG emission limits are approximately 37 percent lower than during the first year of the regulations in 2009. For medium-duty passenger vehicles and light-duty trucks 3,751 LVW to 8,500 pounds gross vehicle weight (GVW), GHG emissions are reduced approximately 24 percent between 2009 and 2016.

The CARB requested a waiver of federal preemption of California’s Greenhouse Gas Emissions Standards. The intent of the waiver is to allow California to enact emissions standards to reduce carbon dioxide and other greenhouse gas emissions from automobiles in accordance with the regulation amendments to the CCRs that fulfill the requirements of AB 1493. The U.S. EPA granted a waiver to California to implement its greenhouse gas emissions standards for cars.

2.2.5 ASSEMBLY BILL 1007

Assembly Bill 1007, (Pavley, Chapter 371, Statutes of 2005) directed the CEC to prepare a plan to increase the use of alternative fuels in California. As a result, the CEC prepared the State Alternative Fuels Plan in consultation with the state, federal, and local agencies. The plan presents strategies and actions California must take to increase the use of alternative non-petroleum fuels in a manner that minimizes costs to California and maximizes the economic benefits of in-state production. The Plan assessed various alternative fuels and developed fuel portfolios to meet California’s goals to reduce petroleum consumption, increase alternative fuels use, reduce greenhouse gas emissions, and increase in-state production of biofuels without causing a significant degradation of public health and environmental quality.

2.2.6 BIOENERGY ACTION PLAN – EXECUTIVE ORDER #S-06-06

Executive Order #S-06-06 establishes targets for the use and production of biofuels and biopower and directs state agencies to work together to advance biomass programs in California while providing environmental protection and mitigation. The executive order establishes the following target to increase the production and use of bioenergy, including ethanol and biodiesel fuels made from renewable resources: produce a minimum of 20 percent of its biofuels within California by 2010, 40 percent by 2020, and 75 percent by 2050. The executive order also calls for the state to meet a target for use of biomass electricity.

2.2.7 CALIFORNIA EXECUTIVE ORDERS S-3-05 AND S-20-06, AND ASSEMBLY BILL 32

On June 1, 2005, Governor Arnold Schwarzenegger signed Executive Order S-3-05. The goal of this Executive Order is to reduce California’s GHG emissions to: 1) 2000 levels by 2010, 2) 1990 levels by the 2020 and 3) 80% below the 1990 levels by the year 2050. EO-S-20-06 establishes responsibilities and roles of the Secretary of Cal/EPA and state agencies in climate change

In 2006, this goal was further reinforced with the passage of Assembly Bill 32 (AB 32), the Global Warming Solutions Act of 2006. AB 32 sets the same overall GHG emissions reduction goals while further mandating that the CARB create a plan, which includes market mechanisms, and implement rules to achieve “real, quantifiable, cost-effective reductions of greenhouse gases.” Executive Order S-20-06 further directs state agencies to begin implementing AB 32, including the recommendations made by the state’s Climate Action Team.

2.2.8 EO S-13-08

EO S-13-08 was issued on November 14, 2008. The EO is intended to hasten California’s response to the impacts of global climate change, particularly sea level rise, and directs state agencies to take specified actions to assess and plan for such impacts, including requesting the National Academy of Sciences to prepare a Sea Level Rise Assessment Report, directing the Business, Transportation, and Housing Agency to assess the vulnerability of the State’s transportation systems to sea level rise, and requiring the Office of Planning and Research and the Natural Resources Agency to provide land use planning guidance related to sea level rise and other climate change impacts.

The order also required State agencies to develop adaptation strategies to respond to the impacts of global climate change that are predicted to occur over the next 50 to 100 years. The adaption strategies report summarizes key climate change impacts to the State for the following areas: public health; ocean and coastal resources; water supply and flood protection; agriculture; forestry; biodiversity and habitat; and transportation and energy infrastructure. The report recommends strategies and specific responsibilities related to water supply, planning and land use, public health, fire protection, and energy conservation.

2.2.9 ASSEMBLY BILL 32 - CLIMATE CHANGE SCOPING PLAN

On December 11, 2008, the CARB adopted its *Climate Change Scoping Plan* (Scoping Plan), which functions as a roadmap of the CARB’s plans to achieve GHG reductions in California required by Assembly Bill (AB) 32 through subsequently enacted regulations. The Scoping Plan contains the main strategies California

will implement to reduce carbon dioxide-equivalent (CO₂e) emissions by 169 million metric tons (MMT), or approximately 30 percent, from the state’s projected 2020 emissions level of 596 MMT of CO₂e under a business-as-usual scenario. (This is a reduction of 42 MMT CO₂e, or almost 10 percent, from 2002–2004 average emissions, but requires the reductions in the face of population and economic growth through 2020.) The Scoping Plan also breaks down the amount of GHG emissions reductions the CARB recommends for each emissions sector of the state’s GHG inventory. The Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- improved emissions standards for light-duty vehicles (estimated reductions of 31.7 MMT CO₂e);
- the Low-Carbon Fuel Standard (15.0 MMT CO₂e);
- energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO₂e); and
- a renewable portfolio standard for electricity production (21.3 MMT CO₂e).

The CARB updated the Scoping Plan in 2013 (*First Update to the Scoping Plan*) and again in 2017 (the *Final Scoping Plan*). The 2013 Update built upon the initial Scoping Plan with new strategies and recommendations, and also set the groundwork to reach the long-term goals set forth by the state. Successful implementation of existing programs (as identified in previous iterations of the Scoping Plan) has put California on track to meet the 2020 target. The 2017 Update expands the scope of the plan further by focusing on the strategy for achieving the state’s 2030 GHG target of 40 percent emissions reductions below 1990 levels (to achieve the target codified into law by SB 32), and substantially advances toward the state’s 2050 climate goal to reduce GHG emissions by 80 percent below 1990 levels.

The 2017 Update relies on the preexisting programs paired with an extended, more stringent Cap-and-Trade Program, to delivery climate, air quality, and other benefits. The 2017 Update identifies new technologically feasible and cost-effective strategies to ensure that California meets its GHG reduction

CARB has released a draft scoping plan for 2022 to be finalized later in the year.

2.2.10 SENATE BILL 32

Senate Bill 32, which passed into law in 2016, sets the target of reducing greenhouse gas emissions to 40 percent below the 1990 level by the year 2030. SB 32 extends the original set of greenhouse gas targets provided by the passage of AB 32 (the Global Warnings Solutions Act of 2006). This new target sets an aggressive goalpost, helping the State along its pathway to achieve its longer-term goal of an 80 percent reduction in greenhouse gas emissions by the year 2050.

2.2.11 SENATE BILL 743

SB 743, passed into law in 2013, changes the way that public agencies evaluate the transportation impacts of projects under CEQA. The proposed revisions to the State CEQA Guidelines would establish new criteria for determining the significance of a project’s transportation impacts that will more appropriately balance the needs of congestion management with statewide goals related to infill development, promotion of public health through active transportation, and reduction of GHGs. The 2017 Update to the Scoping Plan identified that slower VMT growth from more efficient land use development patterns would promote achievement of the state’s climate goals.

As detailed in SB 743, the Governor’s Office of Planning and Research (OPR) was tasked with developing potential metrics to measure transportation impacts and replace the use of delay and level of service (LOS). More detail about SB 743 is provided in the setting section of Chapter 3.14, “Traffic and Circulation” of the Draft EIR.

In December 2018, OPR released its final changes to the CEQA Guidelines, including the addition of Section 15064.3 of the CEQA Guidelines that would implement SB 743. In support of these changes, OPR also published its Technical Advisory on Evaluating Transportation Impacts in CEQA, which recommends that the transportation impact of a project be based on whether it would generate a level of vehicle miles traveled (VMT) per capita (or VMT per employee) that is 15 percent lower than existing development in the region. OPR’s technical advisory explains that this criterion is consistent with Section 21099 of the California Public Resources Code, which states that the criteria for determining significance must “promote the reduction in greenhouse gas emissions”. It is also consistent with the statewide per capita VMT reduction target developed by Caltrans in its Strategic Management Plan, which calls for a 15 percent reduction in per capita VMT, compared to 2010 levels, by 2020. Additionally, the California Air Pollution Control Officers Association (CAPCOA) determined that a 15 percent reduction in VMT is typically achievable for projects. CARB’s First Update to the Climate Change Scoping Plan also called for local governments to set communitywide GHG reduction targets of 15 percent below then-current levels by 2020. Although not required, a lead agency may elect to be governed by the provisions of Section 15064.3 immediately.

2.2.12 EXECUTIVE ORDER B-48-18: ZERO-EMISSION VEHICLES

In January 2018, EO B-48-18 was signed into law and requires all State entities to work with the private sector to have at least 5 million zero-emission vehicles (ZEVs) on the road by 2030, as well as install 200 hydrogen fueling stations and 250,000 electric vehicle charging stations by 2025. It specifies that 10,000 of the electric vehicle charging stations should be direct current fast chargers. This Executive Order also requires all State entities to continue to partner with local and regional governments to streamline the installation of ZEV infrastructure. The Governor’s Office of Business and Economic Development is required to publish a Plug-in Charging Station Design Guidebook and update the 2015 Hydrogen Station Permitting Guidebook to aid in these efforts. All State entities are required to participate in updating the 2016 Zero-Emissions Vehicle Action Plan (Governor’s Interagency Working Group on Zero-Emission Vehicles 2016) to help expand private investment in ZEV infrastructure with a focus on serving low-income and disadvantaged communities. Additionally, all State entities are to support and recommend policies and actions to expand ZEV infrastructure at residential uses through the Low Carbon Fuel Standard Program, and recommend how to ensure affordability and accessibility for all drivers.

2.2.13 ASSEMBLY BILL 2076: CALIFORNIA STRATEGY TO REDUCE PETROLEUM DEPENDENCE

In response to the requirements of Assembly Bill (AB) 2076 (Chapter 936, Statutes of 2000), the CEC and the CARB developed a strategy to reduce petroleum dependence in California. The strategy, *Reducing California’s Petroleum Dependence*, was adopted by the CEC and the CARB in 2003. The strategy recommends that California reduce on-road gasoline and diesel fuel demand to 15 percent below 2003 demand levels by 2020 and maintain that level for the foreseeable future; the Governor and Legislature work to establish national fuel economy standards that double the fuel efficiency of new cars, light trucks,

and sport utility vehicles (SUVs); and increase the use of non- petroleum fuels to 20 percent of on-road fuel consumption by 2020 and 30 percent by 2030.

2.2.14 ASSEMBLY BILL 2188: SOLAR PERMITTING EFFICIENCY ACT

Assembly Bill (AB) 2188, enacted in California in 2015, required local governments to adopt a solar ordinance by September 30, 2015 that creates a streamlined permitting process that conforms to the best practices for expeditious and efficient permitting of small residential rooftop solar systems. The act is designed to lower the cost of solar installations in California and further expand the accessibility of solar to more California homeowners. The bulk of the time and cost savings associated with a streamlined permitting process comes from the use of a standardized eligibility checklist and a simplified plan. This bill also shortens the number of days for those seeking Homeowner’s Association (HOA) approval for a written denial of a proposed solar installation.

2.2.15 GOVERNOR’S LOW CARBON FUEL STANDARD (EXECUTIVE ORDER #S-01-07)

Executive Order #S-01-07 establishes a statewide goal to reduce the carbon intensity of California’s transportation fuels by at least 10 percent by 2020 through establishment of a Low Carbon Fuel Standard. The Low Carbon Fuel Standard is incorporated into the State Alternative Fuels Plan and is one of the proposed discrete early action GHG reduction measures identified by the CARB pursuant to AB 32.

2.2.16 SENATE BILL 97

Senate Bill (SB) 97 (Chapter 185, 2007) required OPR to develop recommended amendments to the State CEQA Guidelines for addressing greenhouse gas emissions. OPR prepared its recommended amendments to the State CEQA Guidelines to provide guidance to public agencies regarding the analysis and mitigation of greenhouse gas emissions and the effects of greenhouse gas emissions in draft CEQA documents. The Amendments became effective on March 18, 2010.

2.2.17 SENATE BILL 375

Senate Bill (SB) 375 (Stats. 2008, ch. 728) (SB 375) was built on AB 32 (California’s 2006 climate change law). SB 375’s core provision is a requirement for regional transportation agencies to develop a Sustainable Communities Strategy (SCS) in order to reduce GHG emissions from passenger vehicles. The SCS is one component of the existing Regional Transportation Plan (RTP).

The SCS outlines the region’s plan for combining transportation resources, such as roads and mass transit, with a realistic land use pattern, in order to meet a state target for reducing GHG emissions. The strategy must take into account the region’s housing needs, transportation demands, and protection of resource and farmlands.

Additionally, SB 375 modified the state’s Housing Element Law to achieve consistency between the land use pattern outlined in the SCS and the Regional Housing Needs Assessment allocation. The legislation also substantially improved cities’ and counties’ accountability for carrying out their housing element plans.

Finally, SB 375 amended the California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.) to ease the environmental review of developments that help reduce the growth of GHG emissions.

2.2.18 EXECUTIVE ORDER B-30-15

On April 29, 2015, Governor Jerry Brown issued Executive Order (EO) B-30-15, which establishes a State GHG reduction target of 40 percent below 1990 levels by 2030. The new emission reduction target provides for a mid-term goal that would help the State to continue on course from reducing GHG emissions to 1990 levels by 2020 (per AB 32) to the ultimate goal of reducing emissions 80 percent under 1990 levels by 2050 (per EO S-03-05). This is in line with the scientifically established levels needed in the U.S. to limit global warming below 2 degrees Celsius – the warming threshold at which scientists say there will likely be major climate disruptions. EO B-30-15 also addresses the need for climate adaptation and directs State government to:

- Incorporate climate change impacts into the State’s Five-Year Infrastructure Plan;
- Update the Safeguarding California Plan, the State climate adaptation strategy, to identify how climate change will affect California infrastructure and industry and what actions the State can take to reduce the risks posed by climate change;
- Factor climate change into State agencies' planning and investment decisions; and
- Implement measures under existing agency and departmental authority to reduce GHG emissions.

2.2.19 ADVANCED CLEAN CARS PROGRAM

In January 2012, the CARB approved the Advanced Clean Cars program which combines the control of GHG emissions and criteria air pollutants, as well as requirements for greater numbers of zero-emission vehicles, into a single package of standards for vehicle model years 2017 through 2025. The new rules strengthen the GHG standard for 2017 models and beyond. This will be achieved through existing technologies, the use of stronger and lighter materials, and more efficient drivetrains and engines. The program’s zero-emission vehicle regulation requires battery, fuel cell, and/or plug-in hybrid electric vehicles to account for up to 15 percent of California’s new vehicle sales by 2025. The program also includes a clean fuels outlet regulation designed to support the commercialization of zero-emission hydrogen fuel cell vehicles planned by vehicle manufacturers by 2015 by requiring increased numbers of hydrogen fueling stations throughout the state. The program will have significant energy demand implications as battery, fuel cell, and/or plug-in hybrid electric vehicle sales increase overtime, creating new demand for electricity services both in residential and commercial buildings (e.g. charging stations) as well as demand for new EV and hydrogen fuel cell charging stations. The number of stations will grow as vehicle manufacturers sell more fuel cell vehicles. According to the CARB, by 2025, when the rules will be fully implemented, the statewide fleet of new cars and light trucks will emit 34 percent fewer global warming gases and 75 percent fewer smog-forming emissions than the statewide fleet in 2016.

2.2.20 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS

Title 24, Part 6 of the California Code of Regulations, known as the Building Energy Efficiency Standards (Standards), was established in 1978 in response to a legislative mandate to reduce California’s energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. On January 1, 2010, the California Building Standards

Commission adopted CALGreen and became the first state in the United States to adopt a statewide green building standards code.

The 2016 update to the California Building Energy Efficiency Standards (the current version of the Standards) went into effect on January 1, 2017. The Standards are divided into three basic sets. First, there is a basic set of mandatory requirements that apply to all buildings. Second, there is a set of performance standards – the energy budgets – that vary by climate zone (of which there are 16 in California) and building type; thus, the Standards are tailored to local conditions. Finally, the third set constitutes an alternative to the performance standards, which is a set of prescriptive packages that are basically a recipe or a checklist compliance approach.

Compared with the previous version of the Standards, the 2016 Standards are expected to reduce statewide annual electricity consumption by approximately 281 gigawatt-hours per year, and natural gas consumption by 16 million therms per year, which is equivalent to a reduction in GHG emissions of approximately 160,000 MT CO₂e/year. The forthcoming update to the Standards (the 2019 Standards) will become effective on January 1, 2020, and will further increase energy efficiency requirements for new development beyond the 2016 update.

2.3 LOCAL

2.3.1 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

The South Coast Air Quality Management District (SCAQMD) adopted a Policy on Global Warming and Stratospheric Ozone Depletion in April 1990. The policy commits the SCAQMD to consider global impacts in rulemaking and in drafting revisions to the Air Quality Management Plan. In March 1992, the SCAQMD Governing Board reaffirmed this policy and adopted amendments to the policy to include the following directives:

- Phase out the use and corresponding emissions of CFCs, methyl chloroform (1,1,1-trichloroethane or TCA), carbon tetrachloride, and halons by December 1995;
- Phase out the large quantity use and corresponding emissions of HCFCs by the year 2000;
- Develop recycling regulations for HCFCs (e.g., SCAQMD Rules 1411 and 1415);
- Develop an emissions inventory and control strategy for methyl bromide; and
- Support the adoption of a California GHG emission reduction goal.

The legislative and regulatory activity detailed above is expected to require significant development and implementation of energy efficient technologies and shifting of energy production to renewable sources.

2.3.2 CITY OF SAN JACINTO

The City of San Jacinto is participating in the Western Riverside Council of Governments Subregional Climate Action Plan (WRCOG Subregional CAP), which proposes a path to a 15% reduction in greenhouse gas emissions by 2030 through state, regional, and local measures. The WRCOG Subregional CAP update provides participating jurisdictions with a framework for reducing their GHG emissions consistent with targets and mandates established by the State of California. The CAP assesses the impact that State and

regional actions will have on GHG emissions reduction and provides a roadmap for individual communities in the subregion to achieve additional reductions through local actions.

3.0 IMPACTS AND MITIGATION MEASURES

3.1 GREENHOUSE GASES THRESHOLDS OF SIGNIFICANCE

Per Appendices F and G of the CEQA Guidelines, climate change-related impacts are considered significant if implementation of the proposed project would do any of the following:

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

3.1.1 ANALYSIS APPROACH

Cumulative impacts are the collective impacts of one or more past, present, and future projects that, when combined, result in adverse changes to the environment. In determining the significance of a project's contribution to anticipated adverse future conditions, a lead agency should generally undertake a two-step analysis. The first question is whether the *combined* effects from *both* the proposed Project *and* other projects would be cumulatively significant. If the agency answers this inquiry in the affirmative, the second question is whether “the project’s *incremental* effects are cumulatively considerable” and thus significant in and of themselves. The cumulative global project list for this issue (climate change) comprises anthropogenic (i.e., human-made) GHG emissions sources across the globe. No project alone would reasonably be expected to contribute to a noticeable incremental change to the global climate, but rather effects are shown to be caused by the cumulative emissions from across the globe. However, legislation and executive orders on the subject of climate change in California have established a statewide context and process for developing an enforceable statewide cap on GHG emissions. Given the nature of environmental consequences from GHGs and global climate change, CEQA requires that lead agencies consider evaluating the cumulative impacts of GHGs. Small contributions to this cumulative impact (from which significant effects are occurring and are expected to worsen over time) may be potentially considerable and, therefore, significant.

OPR recommends that lead agencies under CEQA create a plan to reduce GHG emissions that meets the goals of both CEQA and general plans. The OPR states that the GHG emissions reduction plan can be either a stand-alone CAP or directly part of the general plan. The City of San Jacinto is participating in the WRCOG Subregional Climate Action Plan (WRCOP Subregional CAP) as of May 2021. The WRCOG Subregional CAP's assessment for the City of San Jacinto meeting the Statewide GHG emissions targets are summarized in the following sections. In the process of updating the Subregional CAP, community inventories were developed for all jurisdictions in the WRCOG subregion, for the years 2010 and 2017, to quantify GHG emissions resulting from the community and government operations. The inventories include emissions from the following sectors: residential energy, nonresidential energy, on-road transportation, off-road equipment, rail, solid waste, water, wastewater, and agriculture. For the purposes of the Subregional CAP,

inventory data was compiled for the 13 participating jurisdictions to establish a 2010 baseline inventory and a 2017 inventory update that provides a more current emissions accounting. The jurisdictions participating in the Subregional CAP update are the cities of San Jacinto, Banning, Beaumont, Calimesa, Canyon Lake, Eastvale, Jurupa Valley, Lake Elsinore, Menifee, Norco, Perris, Temecula, and Wildomar. In general, inventories provide an estimate of current emissions using the best available data and methods at the time the inventory was completed. As data collection and estimation methodologies evolve, future inventories may incorporate emission sources that were not captured previously or use newer approaches to estimate emissions.

An analysis of the proposed Project’s consistency with the California statewide 2030 GHG emissions target of 40 percent below 1990 levels by 2030 (as encapsulated by SB 32) is provided herein. Further, a qualitative analysis of the Project’s consistency with the California statewide 2050 target of 80 percent below 1990 levels by 2050 (as encapsulated in AB 32 and Executive Order S-03-05) is also provided herein.

3.1.2 METHODOLOGY

The City of San Jacinto is a participant in the Western Council of Governments Subregional Climate Action Plan (WRCOP Subregional CAP). The impacts of the plan are summarized in the following sections.

3.2 ENERGY CONSERVATION THRESHOLDS OF SIGNIFICANCE

The proposed project would result in a significant impact on energy use if it would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

3.2.1 ANALYSIS APPROACH AND METHODOLOGY

In order to determine whether or not the proposed project would result in a significant impact on energy use, this EIR includes an analysis of proposed project energy use, as provided under Impact 3. A description of the methodology used to estimate energy emissions is provided within the energy impact analysis (see Impact 3).

The State CEQA Guidelines require consideration of the potentially significant energy implications of a project. CEQA requires mitigation measures to reduce “wasteful, inefficient and unnecessary” energy usage (Public Resources Code Section 21100, subdivision [b][3]). According to Appendix G of the CEQA Guidelines, the means to achieve the goal of conserving energy include decreasing overall energy consumption, decreasing reliance on natural gas and oil, and increasing reliance on renewable energy sources. In particular, a project would be considered “wasteful, inefficient, and unnecessary” if it were to violate state and federal energy standards and/or result in significant adverse impacts related to project energy requirements, energy inefficiencies, energy intensiveness of materials, cause significant impacts on local and regional energy supplies or generate requirements for additional capacity, fail to comply with existing energy standards, otherwise result in significant adverse impacts on energy resources, or conflict or create an inconsistency with applicable plan, policy, or regulation.



3.3 IMPACTS AND MITIGATION MEASURES

3.3.1 IMPACT 1: GENERAL PLAN IMPLEMENTATION HAS THE POTENTIAL TO GENERATE GHG EMISSIONS THAT COULD HAVE A SIGNIFICANT IMPACT ON THE ENVIRONMENT (SIGNIFICANT AND UNAVOIDABLE)

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Implementation of the proposed project would contribute to increases of GHG emissions that are associated with global climate change. Estimated GHG emissions attributable to future development would be primarily associated with increases of CO₂ and other GHG pollutants, such as methane (CH₄) and nitrous oxide (N₂O), from mobile sources and utility usage.

WRCOG has developed a subregional CAP with the participation of the City of San Jacinto, as well as other jurisdictions in the subregion, to achieve local GHG emissions levels that would be consistent with the Statewide reduction targets established by AB 32, SB 32, and CARB's 2017 Scoping Plan. The WRCOG Subregional CAP's approach to GHG reductions is consistent with the framework established by WRCOG. The following analysis includes a summary of the WRCOG Subregional CAP's approach to reducing GHG emissions through buildout of the General Plan Update.

An analysis of the proposed Project's consistency with the California statewide 2030 GHG emissions target of 40 percent below 1990 levels by 2030 (as encapsulated by SB 32) is provided herein. Further, a qualitative analysis of the Project's consistency with the California statewide 2050 target of 80 percent below 1990 levels by 2050 (as encapsulated in AB 32 and Executive Order S-03-05) is also provided herein.

[Community GHG Emissions Inventory, Forecasts, and Targets](#)

The following pages summarize the Subregional CAP's quantification of baseline GHG emissions generated by WRCOG with the participation of the City, the establishment of GHG emissions targets that demonstrate a level which the contribution of GHG emissions from activities covered by the CAP would not be cumulatively considerable, and forecasts for future year GHG emissions. These analyses and results are provided in the CAP and are briefly summarized below.

[GHG Emissions Inventory](#)

The WRCOG Subregional CAP Community GHG Inventory quantifies the annual emissions resulting from activities within the City by residents, businesses, and the local government for the City of San Jacinto. The community inventory provides an understanding of where GHG emissions are originating and informs development of effective strategies and actions to reduce emissions.

The City's baseline Community GHG Inventory (2010) forms the basis for setting emissions reduction targets and measuring future progress. Forecasts of the City's future emissions are projected forward from the more recent 2017 inventory, based on current best estimates for population, households, and job growth within the City under "business-as-usual" (BAU) conditions and under an "adjusted" forecast scenario that accounts for State-mandated GHG reduction programs and regional programs that affect all

WRCOG jurisdictions. The 2017 community emissions for the City of San Jacinto was 3.5 MTCO_{2e} per service population (SP).

Table 1 provides a summary of the City’s 2010 (baseline) and 2017 community inventories and forecasted BAU emissions for the years 2030 and 2050. The boundaries of analysis, along with the methodology and assumptions used to develop the inventories and future projections, are detailed in full in the CAP. As shown in 1, the transportation sector is the largest contributor to emissions.

Table 1: City of San Jacinto GHG Emission Inventories and BAU Forecasts (MTCO_{2e})¹

Sector	2010	2017	2030	2050
On-Road Transportation	87,200	109,065	159,222	238,613
Residential Electricity	30,434	27,023	41,040	61,935
Residential Natural Gas	28,874	26,005	38,865	58,653
Non-Residential Electricity	23,524	18,274	25,243	35,502
Non-Residential Natural	7,484	4,260	5,791	8,144
Solid Waste	8,033	10,617	14,762	21,140
Water	3,300	3,002	7,019	10,045
Wastewater	369	389	541	775
Off-Road Equipment	3,381	4,426	6,006	8,084
Total ²	192,599	203,062	298,489	442,892
Notes:				
¹ Source: WRCOG Subregional Climate Action Plan – City of San Jacinto				
² Totals may not add up due to rounding.				

GHG Emissions Forecasts and Reduction Target

The City of San Jacinto is committed to supporting the state’s goals for GHG emissions reduction by the year 2030 as mandated by SB 32. Longer term, the City is committed to contributing its fair share toward achieving the state’s emissions reduction goal as stated in Governor’s Executive Order S-3-05, which calls for an 80 percent Statewide reduction below 1990 levels by 2050. Accordingly, the City of San Jacinto has set a target to reduce community-wide emissions to 1.83 MTCO_{2e} per service population (SP) by the year 2030, consistent with the method used to establish the WRCOG Subregion’s 2030 target as described in the WRCOG Subregional CAP, to achieve the target of 40 percent below 1990 GHG emission levels by 2030 as encapsulated by SB 32. This equates to total annual emissions target of 147,932 MTCO_{2e} per year by the year 2030, based on the City’s population and jobs forecasts. The City also set a longer-range goal of 0.62 MTCO_{2e} per SP by 2050, consistent with the state’s goal to achieve 80 percent below 1990 levels by 2050.

GHG Reduction Measures

Table 2 provides a list of the reduction measures per the WRGOC Subregional CAP for the City of San Jacinto along with the estimated reduction for 2030.

Table 2: WRGOC Subregional Climate Action Plan GHG Reduction Measures¹

State Measures	2030 Reductions
SE-1: Renewables Portfolio Standard (RPS)	31,577
SE-2: Title 24 Building Energy Standards	8,027
ST-1: Pavley, Advanced Clean Cars, & LCFS	37,282
SR-1: Recycling and Waste Diversion Mandates	11,618
SW-1: Water Conservation Mandates	642
Total²	89,147
Regional Measures	2030 Reductions
RT-1: Metrolink Expansion	0
RT-2: Telecommuting	1,186
RT-3 Regional Zero Emission Vehicle (ZEV) Initiatives	5,511
Total²	6,697
Local Measures	2030 Reductions
LE-1: Expand Local Renewable Energy Production	3,459
LE-2: Community Choice Energy	Not Quantified
LE-3: Improve Energy Efficiency of Existing Buildings	1,582
LE-4: Building and Appliance Electrification	0
LE-5: Traffic and Street Light Upgrades	259
LE-6: Shade Trees	Not Quantified
Total²	5,301
Transportation Measures	2030 Reductions
LT-1: Bicycle Infrastructure Improvements	512
LT-2: Pedestrian Infrastructure Improvements	983
LT-3: Carshare and Carpool Programs	42
LT-4: Parking Pricing and Limited Requirements	2,713
LT-5: Increase Transit Service and Frequency	0

LT-6 Traffic Signal Coordination	133
LT-7 Increase Housing Density	Not Quantified
LT-8: Increase Land Use Diversity	Not Quantified
LT-9: Transit-Oriented Development	0
LT-10: Local EV Programs	143
LT-11: Subsidized Transit	1,117
Total²	5,644
Notes:	
¹ Source: Western Riverside Council of Governments, Subregional Climate Action Plan, May 2022	
² Totals may not add up due to rounding.	

Additionally, reductions associated with the City’s waste diversion efforts are accounted for by State measure SR-1 (Recycling and Waste Diversion Mandates), while reductions resulting from local water conservation and reuse are accounted for by State Measure SW-1 (Water Conservation Mandates). The City is also supporting statewide efforts to reduce emissions from agriculture through its support for local farms and community gardens, but the reductions associated with these efforts are not accounted for locally, as they are difficult to quantify and likely very small in relation to other local measures.

These measures implemented together result in an estimated 191,700 MTCO₂e in community emissions for 2030, or 3.3 MTCO₂e per capita, which is an approximate 6 percent reduction compared to the 2017 levels, but above the 2030 target of 147,932 MTCO₂e by 43,768 MTCO₂e.

The City also set a longer-range goal of 0.62 MTCO₂e per SP by 2050, consistent with the State’s goal to achieve 80 percent below 1990 levels by 2050. The reduction of GHG emissions puts the City on the path to achieve its 2050 emissions targets. However, the City would need additional actions to keep the City on a path that aligns with the State of California’s longer-term goal for 2050.

Implementation and Monitoring

The City of San Jacinto is responsible for implementing local GHG reduction measures. General Plan Update Action RM-4a would require the City on an annual basis to record the status of each measure and submit the results to WRCOG using the WRCOG Climate Action Plan Tracking Tool. WRCOG is responsible for tracking the progress made by State and regional measures. WRCOG will compile the results from each participating jurisdiction and prepare an annual memorandum documenting the Subregional CAP’s implementation and performance, including estimates of the progress made by each participating jurisdiction towards their 2030 target. Every three to five years, WRCOG will also update the community GHG inventories for each participating jurisdictions to facilitate a more accurate accounting of emissions reductions and progress towards the target. This will entail collecting data at the jurisdictional level for each of the primary inventory sectors (electricity and natural gas, vehicle miles traveled, solid waste, wastewater, and water).



Conclusion

As demonstrated in the analysis provided above, the proposed project is not consistent with WRCOG's plan for developing a plan to reduce GHG emissions and would therefore have a significant and unavoidable impact. The City is not planning on adopting the additional measures recommended in the WRCOF Subregional CAP, since they are not feasible and conflict with the other objectives of the General Plan. Additionally, the draft CAP does not take into account the General Plan Update which includes increased land intensities and densities. The City will continue to participate in the regional efforts of the CAP and implement feasible measures.

Below is a list of measures that the City of San Jacinto will be implementing that will reduce GHG emissions.

1. Cooperate with the South Coast Air Quality Management District, Southern California Association of Governments, and the Western Riverside Council of Governments in their efforts to implement the regional Air Quality Management Plan.
2. Cooperate and participate in regional air quality management planning, programs, and enforcement measures.
3. Achieve a greater balance between jobs and housing in San Jacinto.
4. Promote the growth of clean industry as a method of managing and improving air quality.
5. Promote energy conservation and recycling by the public and private sectors.
6. Encourage alternative modes of transportation to reduce vehicular emissions and improve air quality
7. Encourage pedestrian scale development and pedestrian friendly access to reduce vehicle emissions.
8. In appropriate areas, allow mixed use development that combines housing, employment, and retail activities on one site.
9. Concentrate higher density development at transportation nodes and areas served by a well-developed vehicular network.
10. Support sustainable development patterns and green building standards that reduce energy use.
11. The City of San Jacinto establishes the following per capita GHG reduction targets, in order to meet the requirements established by the state under AB 32 and SB 32, consistent with the CARB's 2017 Scoping Plan:
 - 1.83 MT CO₂e per capita by 2030



- 0.62 MT CO₂e per capita by 2050.

3.3.2 IMPACT 2: GENERAL PLAN IMPLEMENTATION HAS THE POTENTIAL TO CONFLICT WITH ADOPTED PLANS, POLICIES, OR REGULATIONS ADOPTED FOR THE PURPOSE OF REDUCING GREENHOUSE GAS EMISSIONS (SIGNIFICANT AND UNAVOIDABLE)

As described under Impact 1, the proposed project (San Jacinto General Plan) would not satisfy the GHG reduction requirements established by SB 32 and AB 32. As further provided under Impact 1, the GHG reduction targets developed for the proposed General Plan are consistent with the GHG reduction targets provided in the CARB’s 2017 Scoping Plan, which were developed by the CARB to ensure compliance with AB 32, SB 32, and consistent with Executive Order S-03-05. These laws established a statewide reduction in GHG emissions to 15% below 1990 levels by 2020 (under AB 32), a 40% below 1990 levels by 2030 (under SB 32), and 80% below 1990 levels by 2050 (under AB 32 and consistent with Executive Order S-03-05).

As demonstrated under Impact 1, the proposed project would not be consistent with the CARB’s 2017 Scoping Plan, and thus all current statewide GHG reduction laws (i.e. AB 32 and SB 32) relevant to the proposed project that have been adopted to reduce GHG emissions.

More specifically, the CARB’s 2017 Scoping Plan, adopted in November 2017, provides guidance on how the State’s established GHG reduction targets will be achieved through various State and local actions. As discussed in Chapter 5 of the Scoping Plan “Achieving Success”, local jurisdictions working to set GHG reduction targets aligned with the State targets may use per capita emission estimates to recognize the GHG reductions needed to remain in line with State targets.

As provided under Impact 1, the proposed project would not reduce emissions to below the community wide thresholds through buildout of the General Plan (i.e. for years 2030 and 2040), which ensures that the proposed project is consistent with all GHG reduction targets established for the state. Therefore, the proposed project would conflict with the State of California’s GHG reduction goals and targets.

The SCAQMD adopted a Policy on Global Warming and Stratospheric Ozone Depletion in April 1990. However, this policy did not set a GHG reduction target or goal, and the proposed project would not conflict with this policy. There are currently no other local policies relevant to the proposed project adopted for the purpose of reducing GHG emissions.

The proposed project would conflict with the WRCOG Subregional CAP, SB 32, AB 32, and the CARB 2017 Scoping Plan. There would be a **significant and unavoidable** impact relative to this topic. The City of San Jacinto will be implementing the additional GHG reductions strategies shown in Impact 1 in order to further reduce emissions.

3.3.3 IMPACT 3: GENERAL PLAN IMPLEMENTATION HAS THE POTENTIAL TO RESULT IN A SIGNIFICANT IMPACT DUE TO WASTEFUL, INEFFICIENT, OR UNNECESSARY CONSUMPTION OF ENERGY RESOURCES, OR CONFLICT WITH OR OBSTRUCT A STATE OR LOCAL PLAN FOR RENEWABLE ENERGY OR ENERGY EFFICIENCY (LESS THAN SIGNIFICANT)

The proposed project is the updated San Jacinto General Plan, with a horizon year of 2040. Buildout of the General Plan includes residential, commercial, office, industrial, mixed-use, open space, and other land uses (see Section 3.0: Project Description for further detail). The amount of energy used in the Study Area at buildout would directly correlate to the type and size of development, the energy consumption associated with unit appliances, outdoor lighting, and energy use associated with other buildings and activities. Other major sources of Study Area energy consumption include fuel used by vehicle trips generated during construction and operational activities, and fuel used by off-road and on-road construction vehicles during construction. The following discussion provides calculated levels of energy use expected for the Project, based on commonly used modelling software (i.e. CalEEMod v.2020.4.0 and the California Air Resource Board’s EMFAC2021). The following analysis provides an estimate of the energy consumption in the Study Area in buildout year 2040.

Electricity and Natural Gas

At 2040 buildout, the City of San Jacinto’s electricity and natural gas consumption would be used primarily to power buildings (all types of buildings, including residential, commercial, office, industrial, public, etc.). Total annual electricity (kWh) and natural gas (kBTU) usage associated with operational activities at proposed project buildout are shown in Table 3, below (as provided by CalEEMod). The analysis performed uses a 2040 buildout for a 20-year planning horizon.

Table 3: Maximum Regional Construction Emissions

Electricity (kWh/year)	Natural Gas (kBTU/year)	CO ₂ e Emissions (MT/year)
361,278,840	906,158,370	525.72
Source: CalEEMod (v.2020.4.0)		

According to CalEEMod’s *Appendix A: Calculation Details for CalEEMod*, CalEEMod uses the California Commercial End Use Survey (CEUS) database to develop energy intensity value for non-residential buildings. The energy use from residential land uses is calculated based on the Residential Appliance Saturation Survey (RASS). Similar to CEUS, this is a comprehensive energy use assessment that includes the end use for various climate zones in California.

Fuel Consumption - On-road Vehicles (Operation)

2040 buildout of the General Plan would generate vehicle trips during its operational phase. Based on the Traffic Impact Analysis prepared for the proposed project (Kittelson & Associates, 2021), future development as a result of implementation of the General Plan Update could generate up to 3,830,656 vehicle miles traveled (VMT) per year; however, the project itself does not propose any specific development. In order to calculate operational on-road vehicle energy usage and emissions, default trip lengths generated by CalEEMod were used, which are based on the project location and urbanization level

parameters MD Acoustics (the EIR consultant) selected within CalEEMod (i.e., “Riverside County” and “Urban”, respectively). These values are provided by the individual districts or use a default average for the state, depending on the location of the Project (CAPCOA, 2017). Based on Year 2040 gasoline and diesel MPG (miles per gallon) factors for individual vehicle classes as provided by EMFAC2021, MD Acoustics derived weighted MPG factors for operational on-road vehicles of approximately 31.4 MPG for gasoline and 14.6 MPG for diesel vehicles. With this information, MD Acoustics calculated as a conservative estimate that on-road vehicle energy usage in the Study Area at buildout year 2040 would be approximately 121,261 gallons of gasoline and 15,347 gallons of diesel fuel per day, on average, or 44,260,184 annual gallons of gasoline and 5,601,716 annual gallons of diesel fuel annually. See Appendix C for a detailed calculation.

Fuel Consumption - On-road Vehicles (Construction)

2040 buildout of the General Plan would also generate on-road vehicle trips during construction activities (from construction workers, vendors, and haulers). Estimates of vehicle fuel consumed were derived based on the assumed construction schedule, vehicle trip lengths and number of workers per construction phase as provided by CalEEMod (v 2020.4.0), and Year 2040 gasoline and diesel MPG factors provided by EMFAC2021. Table 4, below, describes gasoline and diesel fuel used by on-road mobile sources during each phase of the construction schedule. As shown, the vast majority of on-road mobile vehicle fuel used during the construction activities during buildout of the General Plan would occur during the building construction phase. See Appendices A and B for a detailed calculation.

Table 4: On-road Mobile Fuel Generated by Project Construction Activities – By Phase

CONSTRUCTION PHASE	TOTAL DAILY WORKER TRIPS ^(A)	TOTAL DAILY VENDOR TRIPS ^(A)	TOTAL DAILY HAULING TRIPS ^(A)	GALLONS OF GASOLINE FUEL ^(B)	GALLONS OF DIESEL FUEL ^(B)
Site Preparation	18	0	0	2,702	0
Grading	20	0	0	2,991	0
Paving	15	0	0	2,243	0
Building Construction	254	86	0	515,677	349,756
Architectural Coating	254	86	0	98,099	66,536
Total	N/A	N/A	N/A	621,712	416,292

Source: CalEEMod (v. 2020.4.0); EMFAC2021.

Off-road Vehicles (Construction)

Off-road construction vehicles would use diesel fuel during construction activities. A non-exhaustive list of off-road constructive vehicles expected to be used during construction activities includes: cranes, forklifts, generator sets, tractors, excavators, and dozers. Based on the total amount of CO₂ emissions expected to be generated by the proposed project (as provided by the CalEEMod output in Appendices A and B), and a CO₂ to diesel fuel conversion factor (provided by the U.S. Energy Information Administration), future development as a result of implementation of the General Plan Update could use up to a total of 95,060 gallons of diesel fuel for off-road construction vehicles (during the site preparation



and grading phases); however, the project itself does not propose any specific development. See Appendix C for a detailed calculation.

Conclusion

Buildout of the General Plan would use energy resources for the operation of buildings (electricity and natural gas), for on-road vehicle trips (e.g., gasoline and diesel fuel), and from off-road construction activities (e.g. diesel fuel) associated with buildout of the General Plan. Each of these activities would require the use of energy resources. Developers of individual projects within the Study Area would be responsible for conserving energy, to the extent feasible, and would rely heavily on reducing per capita energy consumption to achieve this goal, including through Statewide and local measures.

Buildout of the General Plan would be in compliance with all applicable federal, state, and local regulations regulating energy usage. For example, SCE is responsible for the mix of energy resources used to provide electricity for its customers, and it is in the process of implementing the Statewide Renewable Portfolio Standard (RPS) to increase the proportion of renewable energy (e.g., solar and wind) within its energy portfolio.

SCE is expected to achieve at least 60% renewables by 2030, and 100 percent zero-carbon electricity by 2045 (in compliance with SB 100). Additionally, energy-saving regulations, including the latest State Title 24 building energy efficiency standards (“part 6”), would be applicable to the proposed project. Other Statewide measures, including those intended to improve the energy efficiency of the statewide passenger and heavy-duty truck vehicle fleet (e.g., the Pavley Bill and the Low Carbon Fuel Standard), would improve vehicle fuel economies, thereby conserving gasoline and diesel fuel. These energy savings would continue to accrue over time. Additionally, building new housing near new job opportunities would reduce commuting time and allow for opportunities for pedestrian transportation such as walking and biking to work, further reducing energy usage. Furthermore, additional project-specific sustainability features individual development projects could further energy consumption of individual projects. The proposed project would also be in compliance with the planning documents described previously within this section.

As a result, the proposed project would not result in any significant adverse impacts related to project energy requirements, energy use inefficiencies, and/or the energy intensiveness of materials by amount and fuel type for during General Plan buildout, including during construction, operations, maintenance, and/or removal. SCE, the electricity provider to the site, and SoCalGas, the natural gas provider, maintains sufficient capacity to serve the Study Area. The City of San Jacinto would comply with all existing energy standards and would not result in significant adverse impacts on energy resources. Furthermore, connections exist between the Study Area and nearby pedestrian and bicycle pathways, and public transit access exists nearby, reducing the need for local motor vehicle travel. Although improvements to the City’s pedestrian, bicycle, and public transit systems would provide further opportunities for alternative transit, the Study Area would be linked closely with existing networks that, in large part, are sufficient for most residents of the Study Area and neighboring communities. For the reasons stated above, buildout of the General Plan would not be expected cause an inefficient, wasteful, or unnecessary use of energy resources nor conflict with or obstruct a state or local plan for renewable energy or energy efficiency. This is a **less than significant** impact.



4.0 REFERENCES

California Air Pollution Control Officers Association (CAPCOA)

2017 Appendix A, Calculation Details for CalEEMod. October 2017.

California Air Resources Board (CARB)

2017 California’s 2017 Climate Change Scoping Plan. Available at:
https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

California Climate Change Assessment

2019 California’s Fourth Climate Change Assessment.

California Energy Commission

2018 Tracking Overview. Renewable Energy – Overview. Available:
<https://www.energy.ca.gov/data-reports/tracking-progress>.

2019a Energy Almanac. Retrieved August 2012, from
<http://energyalmanac.ca.gov/overview/index.html>.

2019b GHG Current California Emission Inventory Data. Available at:
<https://www.arb.ca.gov/cc/inventory/data/data.htm>.

California Environmental Protection Agency

2010 Climate Action Team Report to Governor Schwarzenegger and the Legislature. December 2010.
http://www.climatechange.ca.gov/climate_action_team/reports/.

Intergovernmental Panel on Climate Change (IPCC)

2013 “Climate Change 2013: The Physical Science Basis, Summary for Policymakers.” Available at:
http://www.climatechange2013.org/images/report/WG1AR5_SPM_FINAL.pdf.

National Resources Defense Council

2014 NRDC Fact Sheet: California Snowpack and the Drought. April 2014. Available at:
<https://www.nrdc.org/sites/default/files/ca-snowpack-anddrought-FS.pdf>.

United States Energy Information Administration (U.S. EIA)

2018 California State Profile and Energy Estimates. Last updated: November 15, 2018. Available at:
<https://www.eia.gov/state/?sid=CA>.

2019a Analysis and Projections. Short-term Energy Outlook. Release date: July 9, 2019b. Available at:
https://www.eia.gov/outlooks/steo/report/global_oil.php.

2019b Independent Statistics and Analysis. Frequently Asked Questions. Last updated May 15, 2019.
Available at: <https://www.eia.gov/tools/faqs/faq.php?id=33&t=6>.



Western Regional Council of Governments

2021 WRCOG Subregional Climate Action Plan. May.



Appendix A:

CalEEMod Daily Emission Output

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

San Jacinto General Plan Buildout Year (2040)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6,792.24	1000sqft	155.93	6,792,240.00	0
General Office Building	759.00	1000sqft	17.42	759,001.00	0
Government (Civic Center)	335.76	1000sqft	7.71	335,763.00	0
Government Office Building	78.67	1000sqft	1.81	78,668.00	0
Government Office Building	503.55	1000sqft	11.56	503,545.00	0
Office Park	3,956.82	1000sqft	90.84	3,956,817.00	0
Library	839.41	1000sqft	19.27	839,408.00	0
General Heavy Industry	2,434.02	1000sqft	55.88	2,434,024.00	0
City Park	4.54	Acre	4.54	197,762.40	0
City Park	0.09	Acre	0.09	3,833.28	0
Apartments Low Rise	1,025.00	Dwelling Unit	64.06	203,279.00	3426
Apartments Low Rise	91.00	Dwelling Unit	5.69	118,002.00	302
Apartments Mid Rise	223.00	Dwelling Unit	5.87	74,861.00	744
Apartments Mid Rise	5,750.00	Dwelling Unit	151.32	1,138,501.00	19205
Condo/Townhouse	1,025.00	Dwelling Unit	64.06	203,279.00	3426
Condo/Townhouse	223.00	Dwelling Unit	13.94	74,861.00	744
Condo/Townhouse	5,750.00	Dwelling Unit	359.38	1,138,501.00	19205
Condo/Townhouse	91.00	Dwelling Unit	5.69	118,002.00	302
Congregate Care (Assisted Living)	50.00	Dwelling Unit	3.13	16,636.00	165
Single Family Housing	215.00	Dwelling Unit	69.81	200,829.00	718
Single Family Housing	6,033.00	Dwelling Unit	1,958.77	10,859,400.00	20149
Single Family Housing	4,098.00	Dwelling Unit	1,330.52	7,376,400.00	13686
Single Family Housing	4,785.00	Dwelling Unit	1,553.57	8,613,000.00	15981
Single Family Housing	56.00	Dwelling Unit	18.18	98,984.00	186
Single Family Housing	2,669.00	Dwelling Unit	866.56	5,157,888.00	8916
Strip Mall	759.00	1000sqft	17.42	759,001.00	0
Strip Mall	78.67	1000sqft	1.81	78,668.00	0

1.2 Other Project Characteristics

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2040
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 - Values as provided by the City of Lake Forest. Land uses types were selected based on best proxy for the land use designations provided. Unit amounts, lot acreages, and population provided by the City.

Construction Phase - Construction schedule assumes buildout by 12/31/2040.

Off-road Equipment -

Grading - Assumes grading occurs over entire Planning Area (6,855 acres).

Woodstoves - No hearths or fireplaces (not permitted in SCAQMD's jurisdiction).

Trips and VMT - For 'Building Construction' & 'Architectural Coating' phases: for res. uses, assumes 24 worker & 8 vendor trips per housing unit/day. For nonres. uses, assumes 8 worker trips & 3 vendor trips per 1000 sf/day. = 199 daily worker 68 daily vendor trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	262.00
tblConstructionPhase	NumDays	15,500.00	261.00
tblConstructionPhase	NumDays	155,000.00	3,543.00
tblConstructionPhase	NumDays	11,000.00	261.00
tblConstructionPhase	NumDays	11,000.00	674.00
tblConstructionPhase	PhaseEndDate	10/28/2044	11/1/2022
tblConstructionPhase	PhaseEndDate	3/28/2104	11/1/2023
tblConstructionPhase	PhaseEndDate	5/13/2698	6/1/2037
tblConstructionPhase	PhaseEndDate	7/12/2740	6/1/2038
tblConstructionPhase	PhaseEndDate	9/10/2782	12/31/2040
tblConstructionPhase	PhaseStartDate	10/29/2044	11/2/2022

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

tblConstructionPhase	PhaseStartDate	3/29/2104	11/2/2023
tblConstructionPhase	PhaseStartDate	5/14/2698	6/2/2037
tblConstructionPhase	PhaseStartDate	7/13/2740	6/2/2038
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	948.60	0.00
tblFireplaces	NumberGas	5,077.05	0.00
tblFireplaces	NumberGas	6,025.65	0.00
tblFireplaces	NumberGas	42.50	0.00
tblFireplaces	NumberGas	15,177.60	0.00
tblFireplaces	NumberNoFireplace	111.60	0.00
tblFireplaces	NumberNoFireplace	597.30	0.00
tblFireplaces	NumberNoFireplace	708.90	0.00
tblFireplaces	NumberNoFireplace	5.00	0.00
tblFireplaces	NumberNoFireplace	1,785.60	0.00
tblFireplaces	NumberWood	55.80	0.00
tblFireplaces	NumberWood	298.65	0.00
tblFireplaces	NumberWood	354.45	0.00
tblFireplaces	NumberWood	2.50	0.00
tblFireplaces	NumberWood	892.80	0.00
tblGrading	AcresOfGrading	783.00	6,855.00
tblGrading	AcresOfGrading	393.00	0.00
tblLandUse	LandUseSquareFeet	3,956,820.00	3,956,817.00
tblLandUse	LandUseSquareFeet	2,434,020.00	2,434,024.00
tblLandUse	LandUseSquareFeet	1,025,000.00	203,279.00
tblLandUse	LandUseSquareFeet	91,000.00	118,002.00

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

tblLandUse	LandUseSquareFeet	223,000.00	74,861.00
tblLandUse	LandUseSquareFeet	5,750,000.00	1,138,501.00
tblLandUse	LandUseSquareFeet	1,025,000.00	203,279.00
tblLandUse	LandUseSquareFeet	223,000.00	74,861.00
tblLandUse	LandUseSquareFeet	5,750,000.00	1,138,501.00
tblLandUse	LandUseSquareFeet	91,000.00	118,002.00
tblLandUse	LandUseSquareFeet	50,000.00	16,636.00
tblLandUse	LandUseSquareFeet	387,000.00	200,829.00
tblLandUse	LandUseSquareFeet	4,804,200.00	5,157,888.00
tblLandUse	LandUseSquareFeet	100,800.00	98,984.00
tblLandUse	Population	2,932.00	3,426.00
tblLandUse	Population	260.00	302.00
tblLandUse	Population	638.00	744.00
tblLandUse	Population	16,445.00	19,205.00
tblLandUse	Population	2,932.00	3,426.00
tblLandUse	Population	638.00	744.00
tblLandUse	Population	16,445.00	19,205.00
tblLandUse	Population	260.00	302.00
tblLandUse	Population	143.00	165.00
tblLandUse	Population	615.00	718.00
tblLandUse	Population	7,633.00	8,916.00
tblLandUse	Population	11,720.00	13,686.00
tblLandUse	Population	13,685.00	15,981.00
tblLandUse	Population	160.00	186.00
tblLandUse	Population	17,254.00	20,149.00
tblTripsAndVMT	VendorTripNumber	6,173.00	86.00
tblTripsAndVMT	VendorTripNumber	0.00	86.00
tblTripsAndVMT	WorkerTripNumber	22,376.00	254.00
tblTripsAndVMT	WorkerTripNumber	4,475.00	254.00

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

tblWoodstoves	NumberCatalytic	55.80	0.00
tblWoodstoves	NumberCatalytic	298.65	0.00
tblWoodstoves	NumberCatalytic	354.45	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberCatalytic	892.80	0.00
tblWoodstoves	NumberNoncatalytic	55.80	0.00
tblWoodstoves	NumberNoncatalytic	298.65	0.00
tblWoodstoves	NumberNoncatalytic	354.45	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	892.80	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.9649	40.5493	21.9383	0.0399	18.2675	2.0455	20.3130	9.9840	1.8819	11.8659	0.0000	3,876.4608	3,876.4608	1.1972	4.9800e-003	3,907.8737
2022	3.7036	38.8945	29.8377	0.0641	34.0990	1.6360	35.7350	9.9840	1.5051	11.4685	0.0000	6,216.7893	6,216.7893	1.9493	5.0800e-003	6,267.0377
2023	3.3948	34.5607	28.7829	0.0669	34.0990	1.4255	35.5246	6.3770	1.3115	7.6885	0.0000	6,672.6410	6,672.6410	1.9488	0.2950	6,777.6225

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.4313	16.7641	25.9975	0.0659	3.3899	0.6503	4.0402	0.9116	0.6118	1.5234	0.0000	6,568.2241	6,568.2241	0.6740	0.2868	6,670.5499
2025	2.2691	15.7140	25.2941	0.0648	3.3899	0.5639	3.9538	0.9115	0.5306	1.4421	0.0000	6,458.0122	6,458.0122	0.6660	0.2786	6,557.6849
2026	2.2186	15.6426	24.7727	0.0638	3.3899	0.5632	3.9531	0.9115	0.5299	1.4414	0.0000	6,356.1583	6,356.1583	0.6622	0.2710	6,453.4647
2027	2.1727	15.5779	24.3262	0.0629	3.3899	0.5623	3.9522	0.9115	0.5291	1.4407	0.0000	6,260.7112	6,260.7112	0.6589	0.2637	6,355.7687
2028	2.1316	15.5248	23.9549	0.0621	3.3899	0.5615	3.9514	0.9115	0.5284	1.4399	0.0000	6,174.1484	6,174.1484	0.6562	0.2570	6,267.1456
2029	2.0925	15.4780	23.6320	0.0613	3.3899	0.5607	3.9506	0.9115	0.5276	1.4391	0.0000	6,095.9968	6,095.9968	0.6539	0.2509	6,187.1224
2030	1.9979	10.9013	23.4290	0.0646	3.3899	0.1805	3.5704	0.9115	0.1788	1.0903	0.0000	6,366.5598	6,366.5598	0.1672	0.2454	6,443.8674
2031	1.9631	10.8821	23.2576	0.0640	3.3899	0.1792	3.5691	0.9115	0.1776	1.0891	0.0000	6,306.4224	6,306.4224	0.1656	0.2403	6,382.1764
2032	1.9316	10.8502	23.0485	0.0635	3.3899	0.1786	3.5685	0.9115	0.1770	1.0885	0.0000	6,251.0168	6,251.0168	0.1641	0.2360	6,325.4553
2033	1.9034	10.8228	22.8697	0.0630	3.3899	0.1781	3.5679	0.9115	0.1765	1.0880	0.0000	6,202.2170	6,202.2170	0.1629	0.2323	6,275.5146
2034	1.8779	10.7976	22.7091	0.0626	3.3899	0.1775	3.5674	0.9115	0.1760	1.0875	0.0000	6,158.7699	6,158.7699	0.1617	0.2290	6,231.0516
2035	1.7628	10.0027	22.5330	0.0622	3.3899	0.1193	3.5092	0.9115	0.1178	1.0294	0.0000	6,120.5710	6,120.5710	0.1524	0.2261	6,191.7631
2036	1.7628	10.0027	22.5330	0.0622	3.3899	0.1193	3.5092	0.9115	0.1178	1.0294	0.0000	6,120.5710	6,120.5710	0.1524	0.2261	6,191.7631
2037	1.7628	10.0027	22.5330	0.0622	3.3899	0.1878	3.5092	0.9115	0.1877	1.0294	0.0000	6,120.5710	6,120.5710	0.1524	0.2261	6,191.7631
2038	556.6853	4.8895	16.1338	0.0342	3.3899	0.1878	3.4287	0.9115	0.1877	0.9488	0.0000	3,504.4723	3,504.4723	0.1035	0.2261	3,573.2264
2039	556.6853	3.5991	8.2095	0.0342	3.3899	0.0388	3.4287	0.9115	0.0373	0.9488	0.0000	3,504.4723	3,504.4723	0.0548	0.2261	3,573.2264
2040	556.5984	3.5057	7.7517	0.0330	3.3899	0.0348	3.4247	0.9115	0.0334	0.9449	0.0000	3,376.7775	3,376.7775	0.0507	0.2167	3,442.6170
Maximum	556.6853	40.5493	29.8377	0.0669	34.0990	2.0455	35.7350	9.9840	1.8819	11.8659	0.0000	6,672.6410	6,672.6410	1.9493	0.2950	6,777.6225

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.9649	40.5493	21.9383	0.0399	18.2675	2.0455	20.3130	9.9840	1.8819	11.8659	0.0000	3,876.4608	3,876.4608	1.1972	4.9800e-003	3,907.8737
2022	3.7036	38.8945	29.8377	0.0641	34.0990	1.6360	35.7350	9.9840	1.5051	11.4685	0.0000	6,216.7893	6,216.7893	1.9493	5.0800e-003	6,267.0377
2023	3.3948	34.5607	28.7829	0.0669	34.0990	1.4255	35.5246	6.3770	1.3115	7.6885	0.0000	6,672.6410	6,672.6410	1.9488	0.2950	6,777.6225
2024	2.4313	16.7641	25.9975	0.0659	3.3899	0.6503	4.0402	0.9116	0.6118	1.5234	0.0000	6,568.2241	6,568.2241	0.6740	0.2868	6,670.5499
2025	2.2691	15.7140	25.2941	0.0648	3.3899	0.5639	3.9538	0.9115	0.5306	1.4421	0.0000	6,458.0122	6,458.0122	0.6660	0.2786	6,557.6849
2026	2.2186	15.6426	24.7727	0.0638	3.3899	0.5632	3.9531	0.9115	0.5299	1.4414	0.0000	6,356.1583	6,356.1583	0.6622	0.2710	6,453.4647
2027	2.1727	15.5779	24.3262	0.0629	3.3899	0.5623	3.9522	0.9115	0.5291	1.4407	0.0000	6,260.7112	6,260.7112	0.6589	0.2637	6,355.7687
2028	2.1316	15.5248	23.9549	0.0621	3.3899	0.5615	3.9514	0.9115	0.5284	1.4399	0.0000	6,174.1484	6,174.1484	0.6562	0.2570	6,267.1456
2029	2.0925	15.4780	23.6320	0.0613	3.3899	0.5607	3.9506	0.9115	0.5276	1.4391	0.0000	6,095.9968	6,095.9968	0.6539	0.2509	6,187.1224
2030	1.9979	10.9013	23.4290	0.0646	3.3899	0.1805	3.5704	0.9115	0.1788	1.0903	0.0000	6,366.5598	6,366.5598	0.1672	0.2454	6,443.8674
2031	1.9631	10.8821	23.2576	0.0640	3.3899	0.1792	3.5691	0.9115	0.1776	1.0891	0.0000	6,306.4224	6,306.4224	0.1656	0.2403	6,382.1764
2032	1.9316	10.8502	23.0485	0.0635	3.3899	0.1786	3.5685	0.9115	0.1770	1.0885	0.0000	6,251.0168	6,251.0168	0.1641	0.2360	6,325.4553
2033	1.9034	10.8228	22.8697	0.0630	3.3899	0.1781	3.5679	0.9115	0.1765	1.0880	0.0000	6,202.2170	6,202.2170	0.1629	0.2323	6,275.5146
2034	1.8779	10.7976	22.7091	0.0626	3.3899	0.1775	3.5674	0.9115	0.1760	1.0875	0.0000	6,158.7699	6,158.7699	0.1617	0.2290	6,231.0516
2035	1.7628	10.0027	22.5330	0.0622	3.3899	0.1193	3.5092	0.9115	0.1178	1.0294	0.0000	6,120.5710	6,120.5710	0.1524	0.2261	6,191.7631
2036	1.7628	10.0027	22.5330	0.0622	3.3899	0.1193	3.5092	0.9115	0.1178	1.0294	0.0000	6,120.5710	6,120.5710	0.1524	0.2261	6,191.7631

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,209.8637	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.7722	4,769.7722	4.5459	0.0000	4,883.4204
Energy	26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797
Mobile	1,046.8398	1,121.1580	10,596.1139	25.7218	3,547.8095	13.5698	3,561.3793	945.4829	12.7488	958.2317		2,621,244.6910	2,621,244.6910	118.2621	114.4248	2,658,299.8227
Total	2,283.4819	1,382.8141	13,348.0210	27.3224	3,547.8095	46.7561	3,594.5656	945.4829	45.9351	991.4180	0.0000	2,918,143.7645	2,918,143.7645	128.4072	119.7805	2,957,048.5227

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,209.8637	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.7722	4,769.7722	4.5459	0.0000	4,883.4204
Energy	26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797
Mobile	1,046.8398	1,121.1580	10,596.1139	25.7218	3,547.8095	13.5698	3,561.3793	945.4829	12.7488	958.2317		2,621,244.6910	2,621,244.6910	118.2621	114.4248	2,658,299.8227
Total	2,283.4819	1,382.8141	13,348.0210	27.3224	3,547.8095	46.7561	3,594.5656	945.4829	45.9351	991.4180	0.0000	2,918,143.7645	2,918,143.7645	128.4072	119.7805	2,957,048.5227

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2021	11/1/2022	5	262	
2	Grading	Grading	11/2/2022	11/1/2023	5	261	
3	Building Construction	Building Construction	11/2/2023	6/1/2037	5	3543	
4	Paving	Paving	6/2/2037	6/1/2038	5	261	
5	Architectural Coating	Architectural Coating	6/2/2038	12/31/2040	5	674	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6855

Acres of Paving: 0

Residential Indoor: 71,669,657; Residential Outdoor: 23,889,886; Non-Residential Indoor: 24,805,703; Non-Residential Outdoor: 8,268,568; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	254.00	86.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	254.00	86.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0767	0.0522	0.7840	1.8900e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		190.8039	190.8039	5.1400e-003	4.9800e-003	192.4164
Total	0.0767	0.0522	0.7840	1.8900e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		190.8039	190.8039	5.1400e-003	4.9800e-003	192.4164

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0767	0.0522	0.7840	1.8900e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		190.8039	190.8039	5.1400e-003	4.9800e-003	192.4164
Total	0.0767	0.0522	0.7840	1.8900e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		190.8039	190.8039	5.1400e-003	4.9800e-003	192.4164

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0709	0.0460	0.7166	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		184.8409	184.8409	4.6100e-003	4.5800e-003	186.3197
Total	0.0709	0.0460	0.7166	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		184.8409	184.8409	4.6100e-003	4.5800e-003	186.3197

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0709	0.0460	0.7166	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		184.8409	184.8409	4.6100e-003	4.5800e-003	186.3197
Total	0.0709	0.0460	0.7166	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		184.8409	184.8409	4.6100e-003	4.5800e-003	186.3197

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					33.8755	0.0000	33.8755	6.3177	0.0000	6.3177			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	33.8755	1.6349	35.5104	6.3177	1.5041	7.8218		6,011.4105	6,011.4105	1.9442		6,060.0158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0788	0.0511	0.7962	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		205.3788	205.3788	5.1200e-003	5.0800e-003	207.0218
Total	0.0788	0.0511	0.7962	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		205.3788	205.3788	5.1200e-003	5.0800e-003	207.0218

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					33.8755	0.0000	33.8755	6.3177	0.0000	6.3177			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	33.8755	1.6349	35.5104	6.3177	1.5041	7.8218	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0788	0.0511	0.7962	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		205.3788	205.3788	5.1200e-003	5.0800e-003	207.0218
Total	0.0788	0.0511	0.7962	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		205.3788	205.3788	5.1200e-003	5.0800e-003	207.0218

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					33.8755	0.0000	33.8755	6.3177	0.0000	6.3177			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	33.8755	1.4245	35.3000	6.3177	1.3105	7.6283		6,011.4777	6,011.4777	1.9442		6,060.0836

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0730	0.0451	0.7317	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		198.7481	198.7481	4.5900e-003	4.6900e-003	200.2612
Total	0.0730	0.0451	0.7317	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		198.7481	198.7481	4.5900e-003	4.6900e-003	200.2612

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					33.8755	0.0000	33.8755	6.3177	0.0000	6.3177			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	33.8755	1.4245	35.3000	6.3177	1.3105	7.6283	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0730	0.0451	0.7317	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		198.7481	198.7481	4.5900e-003	4.6900e-003	200.2612
Total	0.0730	0.0451	0.7317	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		198.7481	198.7481	4.5900e-003	4.6900e-003	200.2612

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0969	2.8097	1.1569	0.0150	0.5508	0.0245	0.5753	0.1586	0.0234	0.1820		1,593.3306	1,593.3306	0.0163	0.2355	1,663.8999
Worker	0.9274	0.5730	9.2931	0.0250	2.8391	0.0133	2.8524	0.7530	0.0122	0.7652		2,524.1005	2,524.1005	0.0584	0.0596	2,543.3166
Total	1.0244	3.3827	10.4500	0.0400	3.3900	0.0378	3.4277	0.9116	0.0356	0.9472		4,117.4311	4,117.4311	0.0746	0.2950	4,207.2165

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0969	2.8097	1.1569	0.0150	0.5508	0.0245	0.5753	0.1586	0.0234	0.1820		1,593.3306	1,593.3306	0.0163	0.2355	1,663.8999
Worker	0.9274	0.5730	9.2931	0.0250	2.8391	0.0133	2.8524	0.7530	0.0122	0.7652		2,524.1005	2,524.1005	0.0584	0.0596	2,543.3166
Total	1.0244	3.3827	10.4500	0.0400	3.3900	0.0378	3.4277	0.9116	0.0356	0.9472		4,117.4311	4,117.4311	0.0746	0.2950	4,207.2165

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0954	2.8099	1.1436	0.0148	0.5508	0.0243	0.5751	0.1586	0.0233	0.1819		1,568.7740	1,568.7740	0.0168	0.2315	1,638.1721
Worker	0.8643	0.5104	8.6870	0.0242	2.8391	0.0127	2.8518	0.7530	0.0117	0.7646		2,443.7513	2,443.7513	0.0529	0.0554	2,461.5701
Total	0.9597	3.3203	9.8306	0.0390	3.3899	0.0370	3.4269	0.9116	0.0349	0.9465		4,012.5252	4,012.5252	0.0697	0.2868	4,099.7422

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2024

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0954	2.8099	1.1436	0.0148	0.5508	0.0243	0.5751	0.1586	0.0233	0.1819		1,568.7740	1,568.7740	0.0168	0.2315	1,638.1721
Worker	0.8643	0.5104	8.6870	0.0242	2.8391	0.0127	2.8518	0.7530	0.0117	0.7646		2,443.7513	2,443.7513	0.0529	0.0554	2,461.5701
Total	0.9597	3.3203	9.8306	0.0390	3.3899	0.0370	3.4269	0.9116	0.0349	0.9465		4,012.5252	4,012.5252	0.0697	0.2868	4,099.7422

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0942	2.7868	1.1307	0.0145	0.5508	0.0243	0.5751	0.1586	0.0233	0.1819		1,541.120 8	1,541.120 8	0.0174	0.2269	1,609.183 2
Worker	0.8075	0.4575	8.0788	0.0234	2.8391	0.0120	2.8511	0.7530	0.0111	0.7640		2,360.417 0	2,360.417 0	0.0476	0.0517	2,377.003 6
Total	0.9017	3.2443	9.2095	0.0379	3.3899	0.0363	3.4263	0.9115	0.0343	0.9459		3,901.537 9	3,901.537 9	0.0651	0.2786	3,986.186 8

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0942	2.7868	1.1307	0.0145	0.5508	0.0243	0.5751	0.1586	0.0233	0.1819		1,541.120 8	1,541.120 8	0.0174	0.2269	1,609.183 2
Worker	0.8075	0.4575	8.0788	0.0234	2.8391	0.0120	2.8511	0.7530	0.0111	0.7640		2,360.417 0	2,360.417 0	0.0476	0.0517	2,377.003 6
Total	0.9017	3.2443	9.2095	0.0379	3.3899	0.0363	3.4263	0.9115	0.0343	0.9459		3,901.537 9	3,901.537 9	0.0651	0.2786	3,986.186 8

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0930	2.7589	1.1199	0.0143	0.5508	0.0242	0.5750	0.1586	0.0232	0.1818		1,513.081 7	1,513.081 7	0.0181	0.2224	1,579.800 5
Worker	0.7582	0.4141	7.5682	0.0226	2.8391	0.0114	2.8505	0.7530	0.0105	0.7634		2,286.602 3	2,286.602 3	0.0432	0.0486	2,302.166 1
Total	0.8512	3.1729	8.6881	0.0369	3.3899	0.0356	3.4255	0.9115	0.0336	0.9452		3,799.684 0	3,799.684 0	0.0612	0.2710	3,881.966 6

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0930	2.7589	1.1199	0.0143	0.5508	0.0242	0.5750	0.1586	0.0232	0.1818		1,513.081 7	1,513.081 7	0.0181	0.2224	1,579.800 5
Worker	0.7582	0.4141	7.5682	0.0226	2.8391	0.0114	2.8505	0.7530	0.0105	0.7634		2,286.602 3	2,286.602 3	0.0432	0.0486	2,302.166 1
Total	0.8512	3.1729	8.6881	0.0369	3.3899	0.0356	3.4255	0.9115	0.0336	0.9452		3,799.684 0	3,799.684 0	0.0612	0.2710	3,881.966 6

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0921	2.7309	1.1111	0.0140	0.5508	0.0241	0.5749	0.1586	0.0230	0.1816		1,483.585 5	1,483.585 5	0.0186	0.2177	1,548.916 9
Worker	0.7132	0.3773	7.1305	0.0220	2.8391	0.0107	2.8498	0.7530	9.8200e-003	0.7628		2,220.651 3	2,220.651 3	0.0393	0.0460	2,235.353 7
Total	0.8053	3.1082	8.2416	0.0359	3.3899	0.0348	3.4247	0.9115	0.0329	0.9444		3,704.236 8	3,704.236 8	0.0579	0.2637	3,784.270 6

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0921	2.7309	1.1111	0.0140	0.5508	0.0241	0.5749	0.1586	0.0230	0.1816		1,483.585 5	1,483.585 5	0.0186	0.2177	1,548.916 9
Worker	0.7132	0.3773	7.1305	0.0220	2.8391	0.0107	2.8498	0.7530	9.8200e-003	0.7628		2,220.651 3	2,220.651 3	0.0393	0.0460	2,235.353 7
Total	0.8053	3.1082	8.2416	0.0359	3.3899	0.0348	3.4247	0.9115	0.0329	0.9444		3,704.236 8	3,704.236 8	0.0579	0.2637	3,784.270 6

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0913	2.7085	1.1049	0.0137	0.5508	0.0240	0.5748	0.1586	0.0229	0.1815		1,455.267 5	1,455.267 5	0.0192	0.2131	1,519.258 1
Worker	0.6728	0.3466	6.7653	0.0214	2.8391	9.9500e-003	2.8491	0.7530	9.1600e-003	0.7621		2,162.406 5	2,162.406 5	0.0360	0.0439	2,176.389 4
Total	0.7642	3.0551	7.8702	0.0351	3.3899	0.0339	3.4238	0.9115	0.0321	0.9436		3,617.674 0	3,617.674 0	0.0552	0.2570	3,695.647 5

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0913	2.7085	1.1049	0.0137	0.5508	0.0240	0.5748	0.1586	0.0229	0.1815		1,455.267 5	1,455.267 5	0.0192	0.2131	1,519.258 1
Worker	0.6728	0.3466	6.7653	0.0214	2.8391	9.9500e-003	2.8491	0.7530	9.1600e-003	0.7621		2,162.406 5	2,162.406 5	0.0360	0.0439	2,176.389 4
Total	0.7642	3.0551	7.8702	0.0351	3.3899	0.0339	3.4238	0.9115	0.0321	0.9436		3,617.674 0	3,617.674 0	0.0552	0.2570	3,695.647 5

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0908	2.6882	1.1000	0.0134	0.5508	0.0239	0.5746	0.1586	0.0228	0.1814		1,428.610 3	1,428.610 3	0.0198	0.2089	1,491.342 1
Worker	0.6343	0.3202	6.4473	0.0209	2.8391	9.2700e-003	2.8484	0.7530	8.5300e-003	0.7615		2,110.912 1	2,110.912 1	0.0332	0.0421	2,124.282 3
Total	0.7251	3.0084	7.5473	0.0343	3.3899	0.0331	3.4230	0.9115	0.0314	0.9429		3,539.522 4	3,539.522 4	0.0529	0.2509	3,615.624 4

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0908	2.6882	1.1000	0.0134	0.5508	0.0239	0.5746	0.1586	0.0228	0.1814		1,428.610 3	1,428.610 3	0.0198	0.2089	1,491.342 1
Worker	0.6343	0.3202	6.4473	0.0209	2.8391	9.2700e-003	2.8484	0.7530	8.5300e-003	0.7615		2,110.912 1	2,110.912 1	0.0332	0.0421	2,124.282 3
Total	0.7251	3.0084	7.5473	0.0343	3.3899	0.0331	3.4230	0.9115	0.0314	0.9429		3,539.522 4	3,539.522 4	0.0529	0.2509	3,615.624 4

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6691	1.0965	0.0132	0.5508	0.0237	0.5745	0.1586	0.0227	0.1813		1,403.5329	1,403.5329	0.0203	0.2048	1,465.0834
Worker	0.5985	0.2976	6.1755	0.0204	2.8391	8.6500e-003	2.8478	0.7530	7.9600e-003	0.7609		2,065.4802	2,065.4802	0.0306	0.0406	2,078.3311
Total	0.6888	2.9667	7.2720	0.0336	3.3899	0.0324	3.4223	0.9115	0.0307	0.9422		3,469.0131	3,469.0131	0.0509	0.2454	3,543.4145

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6691	1.0965	0.0132	0.5508	0.0237	0.5745	0.1586	0.0227	0.1813		1,403.5329	1,403.5329	0.0203	0.2048	1,465.0834
Worker	0.5985	0.2976	6.1755	0.0204	2.8391	8.6500e-003	2.8478	0.7530	7.9600e-003	0.7609		2,065.4802	2,065.4802	0.0306	0.0406	2,078.3311
Total	0.6888	2.9667	7.2720	0.0336	3.3899	0.0324	3.4223	0.9115	0.0307	0.9422		3,469.0131	3,469.0131	0.0509	0.2454	3,543.4145

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0899	2.6695	1.0976	0.0130	0.5508	0.0229	0.5737	0.1586	0.0219	0.1805		1,379.4169	1,379.4169	0.0208	0.2010	1,439.8413
Worker	0.5640	0.2780	6.0030	0.0201	2.8391	8.2000e-003	2.8473	0.7530	7.5400e-003	0.7605		2,029.4588	2,029.4588	0.0286	0.0393	2,041.8822
Total	0.6539	2.9475	7.1006	0.0331	3.3899	0.0311	3.4210	0.9115	0.0294	0.9410		3,408.8756	3,408.8756	0.0494	0.2403	3,481.7235

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0899	2.6695	1.0976	0.0130	0.5508	0.0229	0.5737	0.1586	0.0219	0.1805		1,379.4169	1,379.4169	0.0208	0.2010	1,439.8413
Worker	0.5640	0.2780	6.0030	0.0201	2.8391	8.2000e-003	2.8473	0.7530	7.5400e-003	0.7605		2,029.4588	2,029.4588	0.0286	0.0393	2,041.8822
Total	0.6539	2.9475	7.1006	0.0331	3.3899	0.0311	3.4210	0.9115	0.0294	0.9410		3,408.8756	3,408.8756	0.0494	0.2403	3,481.7235

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0899	2.6544	1.0984	0.0128	0.5508	0.0228	0.5736	0.1586	0.0218	0.1804		1,359.3503	1,359.3503	0.0213	0.1978	1,418.8377
Worker	0.5326	0.2612	5.7932	0.0197	2.8391	7.6800e-003	2.8468	0.7530	7.0600e-003	0.7600		1,994.1198	1,994.1198	0.0266	0.0382	2,006.1648
Total	0.6224	2.9156	6.8915	0.0325	3.3899	0.0305	3.4204	0.9115	0.0289	0.9404		3,353.4700	3,353.4700	0.0479	0.2360	3,425.0025

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0899	2.6544	1.0984	0.0128	0.5508	0.0228	0.5736	0.1586	0.0218	0.1804		1,359.3503	1,359.3503	0.0213	0.1978	1,418.8377
Worker	0.5326	0.2612	5.7932	0.0197	2.8391	7.6800e-003	2.8468	0.7530	7.0600e-003	0.7600		1,994.1198	1,994.1198	0.0266	0.0382	2,006.1648
Total	0.6224	2.9156	6.8915	0.0325	3.3899	0.0305	3.4204	0.9115	0.0289	0.9404		3,353.4700	3,353.4700	0.0479	0.2360	3,425.0025

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0899	2.6410	1.1006	0.0126	0.5508	0.0227	0.5735	0.1586	0.0217	0.1803		1,341.5839	1,341.5839	0.0217	0.1950	1,400.2456
Worker	0.5044	0.2472	5.6122	0.0194	2.8391	7.2100e-003	2.8463	0.7530	6.6300e-003	0.7596		1,963.0864	1,963.0864	0.0249	0.0373	1,974.8162
Total	0.5943	2.8882	6.7128	0.0320	3.3899	0.0299	3.4198	0.9115	0.0284	0.9399		3,304.6702	3,304.6702	0.0466	0.2323	3,375.0617

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0899	2.6410	1.1006	0.0126	0.5508	0.0227	0.5735	0.1586	0.0217	0.1803		1,341.5839	1,341.5839	0.0217	0.1950	1,400.2456
Worker	0.5044	0.2472	5.6122	0.0194	2.8391	7.2100e-003	2.8463	0.7530	6.6300e-003	0.7596		1,963.0864	1,963.0864	0.0249	0.0373	1,974.8162
Total	0.5943	2.8882	6.7128	0.0320	3.3899	0.0299	3.4198	0.9115	0.0284	0.9399		3,304.6702	3,304.6702	0.0466	0.2323	3,375.0617

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0901	2.6275	1.1032	0.0125	0.5508	0.0226	0.5734	0.1586	0.0216	0.1802		1,325.4105	1,325.4105	0.0221	0.1925	1,383.3232
Worker	0.4787	0.2355	5.4490	0.0192	2.8391	6.7800e-003	2.8459	0.7530	6.2400e-003	0.7592		1,935.8127	1,935.8127	0.0233	0.0365	1,947.2756
Total	0.5688	2.8630	6.5522	0.0316	3.3899	0.0294	3.4193	0.9115	0.0279	0.9394		3,261.2232	3,261.2232	0.0455	0.2290	3,330.5988

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2034

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0901	2.6275	1.1032	0.0125	0.5508	0.0226	0.5734	0.1586	0.0216	0.1802		1,325.4105	1,325.4105	0.0221	0.1925	1,383.3232
Worker	0.4787	0.2355	5.4490	0.0192	2.8391	6.7800e-003	2.8459	0.7530	6.2400e-003	0.7592		1,935.8127	1,935.8127	0.0233	0.0365	1,947.2756
Total	0.5688	2.8630	6.5522	0.0316	3.3899	0.0294	3.4193	0.9115	0.0279	0.9394		3,261.2232	3,261.2232	0.0455	0.2290	3,330.5988

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2035

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2036

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.5 Paving - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0269	0.0134	0.3136	1.1200e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		112.9160	112.9160	1.3000e-003	2.1200e-003	113.5803
Total	0.0269	0.0134	0.3136	1.1200e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		112.9160	112.9160	1.3000e-003	2.1200e-003	113.5803

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.5 Paving - 2037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0269	0.0134	0.3136	1.1200e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		112.9160	112.9160	1.3000e-003	2.1200e-003	113.5803
Total	0.0269	0.0134	0.3136	1.1200e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		112.9160	112.9160	1.3000e-003	2.1200e-003	113.5803

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.5 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0269	0.0134	0.3136	1.1200e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		112.9160	112.9160	1.3000e-003	2.1200e-003	113.5803
Total	0.0269	0.0134	0.3136	1.1200e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		112.9160	112.9160	1.3000e-003	2.1200e-003	113.5803

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.5 Paving - 2038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0269	0.0134	0.3136	1.1200e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		112.9160	112.9160	1.3000e-003	2.1200e-003	113.5803
Total	0.0269	0.0134	0.3136	1.1200e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		112.9160	112.9160	1.3000e-003	2.1200e-003	113.5803

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.6 Architectural Coating - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	556.1394	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.6 Architectural Coating - 2038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	556.1394	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.6 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	556.1394	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.6 Architectural Coating - 2039

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	556.1394	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0903	2.6150	1.1057	0.0123	0.5508	0.0225	0.5733	0.1586	0.0215	0.1801		1,310.9806	1,310.9806	0.0225	0.1902	1,368.2260
Worker	0.4557	0.2264	5.3095	0.0189	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,912.0437	1,912.0437	0.0220	0.0359	1,923.2923
Total	0.5460	2.8413	6.4152	0.0312	3.3899	0.0289	3.4188	0.9115	0.0274	0.9389		3,223.0242	3,223.0242	0.0444	0.2261	3,291.5183

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.6 Architectural Coating - 2040

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	556.1364	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0916	2.5806	1.1166	0.0118	0.5508	0.0223	0.5730	0.1586	0.0213	0.1799		1,261.041 1	1,261.041 1	0.0234	0.1826	1,316.035 2
Worker	0.3705	0.1981	4.8428	0.0182	2.8391	5.0800e-003	2.8442	0.7530	4.6800e-003	0.7576		1,834.288 3	1,834.288 3	0.0174	0.0341	1,844.886 1
Total	0.4620	2.7787	5.9594	0.0300	3.3899	0.0274	3.4172	0.9115	0.0260	0.9375		3,095.329 4	3,095.329 4	0.0408	0.2167	3,160.921 3

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

3.6 Architectural Coating - 2040

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	556.1364	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0916	2.5806	1.1166	0.0118	0.5508	0.0223	0.5730	0.1586	0.0213	0.1799		1,261.041 1	1,261.041 1	0.0234	0.1826	1,316.035 2
Worker	0.3705	0.1981	4.8428	0.0182	2.8391	5.0800e-003	2.8442	0.7530	4.6800e-003	0.7576		1,834.288 3	1,834.288 3	0.0174	0.0341	1,844.886 1
Total	0.4620	2.7787	5.9594	0.0300	3.3899	0.0274	3.4172	0.9115	0.0260	0.9375		3,095.329 4	3,095.329 4	0.0408	0.2167	3,160.921 3

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,046.8398	1,121.1580	10,596.1139	25.7218	3,547.8095	13.5698	3,561.3793	945.4829	12.7488	958.2317		2,621,244.6910	2,621,244.6910	118.2621	114.4248	2,658,299.8227
Unmitigated	1,046.8398	1,121.1580	10,596.1139	25.7218	3,547.8095	13.5698	3,561.3793	945.4829	12.7488	958.2317		2,621,244.6910	2,621,244.6910	118.2621	114.4248	2,658,299.8227

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,503.00	8,343.50	6437.00	25,528,810	25,528,810
Apartments Low Rise	666.12	740.74	571.48	2,266,460	2,266,460
Apartments Mid Rise	1,213.12	1,094.93	912.07	3,940,757	3,940,757
Apartments Mid Rise	31,280.00	28,232.50	23517.50	101,611,453	101,611,453
City Park	3.54	8.90	9.94	15,024	15,024
City Park	0.07	0.17	0.19	291	291
Condo/Townhouse	7,503.00	8,343.50	6437.00	25,528,810	25,528,810
Condo/Townhouse	1,632.36	1,815.22	1400.44	5,554,073	5,554,073
Condo/Townhouse	42,090.00	46,805.00	36110.00	143,210,396	143,210,396
Condo/Townhouse	666.12	740.74	571.48	2,266,460	2,266,460
Congregate Care (Assisted Living)	130.00	146.50	157.50	465,709	465,709
General Heavy Industry	9,565.71	15,626.43	12389.18	47,979,873	47,979,873
General Office Building	66,156.42	15,010.85	4754.57	161,325,016	161,325,016
General Office Building	7,392.67	1,677.39	531.30	18,027,315	18,027,315

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	11,409.23	0.00	0.00	25,166,558	25,166,558
Government Office Building	1,777.11	0.00	0.00	2,989,055	2,989,055
Government Office Building	11,375.08	0.00	0.00	19,132,604	19,132,604
Library	60,479.35	67,228.19	35330.68	146,055,094	146,055,094
Office Park	43,801.96	6,489.18	3007.18	110,291,797	110,291,797
Single Family Housing	2,029.60	2,051.10	1838.25	6,852,537	6,852,537
Single Family Housing	56,951.52	57,554.82	51582.15	192,285,369	192,285,369
Single Family Housing	38,685.12	39,094.92	35037.90	130,612,538	130,612,538
Single Family Housing	45,170.40	45,648.90	40911.75	152,508,784	152,508,784
Single Family Housing	528.64	534.24	478.80	1,784,847	1,784,847
Single Family Housing	25,195.36	25,462.26	22819.95	85,067,073	85,067,073
Strip Mall	33,638.92	31,908.40	15506.39	58,602,492	58,602,492
Strip Mall	3,486.57	3,307.20	1607.19	6,073,959	6,073,959
Total	510,330.99	407,865.59	301,919.90	1,475,143,153	1,475,143,153

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Apartments Mid Rise	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
City Park	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Condo/Townhouse	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Congregate Care (Assisted Living)	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
General Heavy Industry	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
General Office Building	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Government (Civic Center)	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Government Office Building	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Library	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Office Park	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Single Family Housing	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Strip Mall	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938

5.0 Energy Detail

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797
NaturalGas Unmitigated	26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	3771.12	0.0407	0.3475	0.1479	2.2200e-003		0.0281	0.0281		0.0281	0.0281		443.6609	443.6609	8.5000e-003	8.1300e-003	446.2973
Apartments Low Rise	42476.9	0.4581	3.9145	1.6658	0.0250		0.3165	0.3165		0.3165	0.3165		4,997.2789	4,997.2789	0.0958	0.0916	5,026.9752
Apartments Mid Rise	226568	2.4434	20.8798	8.8850	0.1333		1.6882	1.6882		1.6882	1.6882		26,655.1096	26,655.1096	0.5109	0.4887	26,813.5076
Apartments Mid Rise	8786.91	0.0948	0.8098	0.3446	5.1700e-003		0.0655	0.0655		0.0655	0.0655		1,033.7547	1,033.7547	0.0198	0.0190	1,039.8978
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

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	12891.2	0.1390	1.1880	0.5055	7.5800e-003		0.0961	0.0961		0.0961	0.0961		1,516.6135	1,516.6135	0.0291	0.0278	1,525.6260
Condo/Townhouse	332397	3.5847	30.6327	13.0352	0.1955		2.4767	2.4767		2.4767	2.4767		39,105.5044	39,105.5044	0.7495	0.7169	39,337.8889
Condo/Townhouse	5260.54	0.0567	0.4848	0.2063	3.0900e-003		0.0392	0.0392		0.0392	0.0392		618.8871	618.8871	0.0119	0.0114	622.5649
Condo/Townhouse	59253.3	0.6390	5.4606	2.3237	0.0349		0.4415	0.4415		0.4415	0.4415		6,970.9812	6,970.9812	0.1336	0.1278	7,012.4063
Congregate Care (Assisted Living)	1970.16	0.0213	0.1816	0.0773	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.7836	231.7836	4.4400e-003	4.2500e-003	233.1609
General Heavy Industry	215595	2.3250	21.1367	17.7548	0.1268		1.6064	1.6064		1.6064	1.6064		25,364.0599	25,364.0599	0.4861	0.4650	25,514.7859
General Office Building	63828.4	0.6884	6.2577	5.2565	0.0376		0.4756	0.4756		0.4756	0.4756		7,509.2291	7,509.2291	0.1439	0.1377	7,553.8527
General Office Building	7132.53	0.0769	0.6993	0.5874	4.2000e-003		0.0531	0.0531		0.0531	0.0531		839.1212	839.1212	0.0161	0.0154	844.1077
Government (Civic Center)	3155.25	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.2062	371.2062	7.1100e-003	6.8100e-003	373.4121
Government Office Building	4731.94	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.6992	556.6992	0.0107	0.0102	560.0074
Government Office Building	739.264	7.9700e-003	0.0725	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9722	86.9722	1.6700e-003	1.5900e-003	87.4890
Library	74350.9	0.8018	7.2893	6.1230	0.0437		0.5540	0.5540		0.5540	0.5540		8,747.1590	8,747.1590	0.1677	0.1604	8,799.1389
Office Park	31329.3	0.3379	3.0715	2.5801	0.0184		0.2334	0.2334		0.2334	0.2334		3,685.8021	3,685.8021	0.0706	0.0676	3,707.7050
Single Family Housing	16662.2	0.1797	1.5355	0.6534	9.8000e-003		0.1242	0.1242		0.1242	0.1242		1,960.2553	1,960.2553	0.0376	0.0359	1,971.9041
Single Family Housing	206843	2.2307	19.0620	8.1115	0.1217		1.5412	1.5412		1.5412	1.5412		24,334.5183	24,334.5183	0.4664	0.4461	24,479.1261
Single Family Housing	317589	3.4250	29.2680	12.4545	0.1868		2.3664	2.3664		2.3664	2.3664		37,363.3780	37,363.3780	0.7161	0.6850	37,585.4098
Single Family Housing	370830	3.9992	34.1745	14.5424	0.2181		2.7631	2.7631		2.7631	2.7631		43,627.0775	43,627.0775	0.8362	0.7998	43,886.3314
Single Family Housing	4339.91	0.0468	0.4000	0.1702	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.5781	510.5781	9.7900e-003	9.3600e-003	513.6122
Single Family Housing	467548	5.0422	43.0878	18.3352	0.2750		3.4837	3.4837		3.4837	3.4837		55,005.6758	55,005.6758	1.0543	1.0084	55,332.5470

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	4574.8	0.0493	0.4485	0.3768	2.6900e-003		0.0341	0.0341		0.0341	0.0341		538.2118	538.2118	0.0103	9.8700e-003	541.4102
Strip Mall	474.163	5.1100e-003	0.0465	0.0391	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003		55.7839	55.7839	1.0700e-003	1.0200e-003	56.1154
Total		26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	42.4769	0.4581	3.9145	1.6658	0.0250		0.3165	0.3165		0.3165	0.3165		4,997.2789	4,997.2789	0.0958	0.0916	5,026.9752
Apartments Low Rise	3.77112	0.0407	0.3475	0.1479	2.2200e-003		0.0281	0.0281		0.0281	0.0281		443.6609	443.6609	8.5000e-003	8.1300e-003	446.2973
Apartments Mid Rise	226.568	2.4434	20.8798	8.8850	0.1333		1.6882	1.6882		1.6882	1.6882		26,655.1096	26,655.1096	0.5109	0.4887	26,813.5076
Apartments Mid Rise	8.78691	0.0948	0.8098	0.3446	5.1700e-003		0.0655	0.0655		0.0655	0.0655		1,033.7547	1,033.7547	0.0198	0.0190	1,039.8978
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
Condo/Townhouse	12.8912	0.1390	1.1880	0.5055	7.5800e-003		0.0961	0.0961		0.0961	0.0961		1,516.6135	1,516.6135	0.0291	0.0278	1,525.6260
Condo/Townhouse	332.397	3.5847	30.6327	13.0352	0.1955		2.4767	2.4767		2.4767	2.4767		39,105.5044	39,105.5044	0.7495	0.7169	39,337.8889
Condo/Townhouse	5.26054	0.0567	0.4848	0.2063	3.0900e-003		0.0392	0.0392		0.0392	0.0392		618.8871	618.8871	0.0119	0.0114	622.5649
Condo/Townhouse	59.2533	0.6390	5.4606	2.3237	0.0349		0.4415	0.4415		0.4415	0.4415		6,970.9812	6,970.9812	0.1336	0.1278	7,012.4063

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Congregate Care (Assisted Living)	1.97016	0.0213	0.1816	0.0773	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.7836	231.7836	4.4400e-003	4.2500e-003	233.1609
General Heavy Industry	215.595	2.3250	21.1367	17.7548	0.1268		1.6064	1.6064		1.6064	1.6064		25,364.0599	25,364.0599	0.4861	0.4650	25,514.7859
General Office Building	63.8284	0.6884	6.2577	5.2565	0.0376		0.4756	0.4756		0.4756	0.4756		7,509.2291	7,509.2291	0.1439	0.1377	7,553.8527
General Office Building	7.13253	0.0769	0.6993	0.5874	4.2000e-003		0.0531	0.0531		0.0531	0.0531		839.1212	839.1212	0.0161	0.0154	844.1077
Government (Civic Center)	3.15525	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.2062	371.2062	7.1100e-003	6.8100e-003	373.4121
Government Office Building	0.739264	7.9700e-003	0.0725	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9722	86.9722	1.6700e-003	1.5900e-003	87.4890
Government Office Building	4.73194	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.6992	556.6992	0.0107	0.0102	560.0074
Library	74.3509	0.8018	7.2893	6.1230	0.0437		0.5540	0.5540		0.5540	0.5540		8,747.1590	8,747.1590	0.1677	0.1604	8,799.1389
Office Park	31.3293	0.3379	3.0715	2.5801	0.0184		0.2334	0.2334		0.2334	0.2334		3,685.8021	3,685.8021	0.0706	0.0676	3,707.7050
Single Family Housing	16.6622	0.1797	1.5355	0.6534	9.8000e-003		0.1242	0.1242		0.1242	0.1242		1,960.2553	1,960.2553	0.0376	0.0359	1,971.9041
Single Family Housing	206.843	2.2307	19.0620	8.1115	0.1217		1.5412	1.5412		1.5412	1.5412		24,334.5183	24,334.5183	0.4664	0.4461	24,479.1261
Single Family Housing	317.589	3.4250	29.2680	12.4545	0.1868		2.3664	2.3664		2.3664	2.3664		37,363.3780	37,363.3780	0.7161	0.6850	37,585.4098
Single Family Housing	370.83	3.9992	34.1745	14.5424	0.2181		2.7631	2.7631		2.7631	2.7631		43,627.0775	43,627.0775	0.8362	0.7998	43,886.3314
Single Family Housing	4.33991	0.0468	0.4000	0.1702	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.5781	510.5781	9.7900e-003	9.3600e-003	513.6122
Single Family Housing	467.548	5.0422	43.0878	18.3352	0.2750		3.4837	3.4837		3.4837	3.4837		55,005.6758	55,005.6758	1.0543	1.0084	55,332.5470
Strip Mall	0.474163	5.1100e-003	0.0465	0.0391	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003		55.7839	55.7839	1.0700e-003	1.0200e-003	56.1154
Strip Mall	4.5748	0.0493	0.4485	0.3768	2.6900e-003		0.0341	0.0341		0.0341	0.0341		538.2118	538.2118	0.0103	9.8700e-003	541.4102
Total		26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,209.863 7	30.4338	2,637.020 8	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.772 2	4,769.772 2	4.5459	0.0000	4,883.420 4
Unmitigated	1,209.863 7	30.4338	2,637.020 8	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.772 2	4,769.772 2	4.5459	0.0000	4,883.420 4

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	102.6736					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1,028.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	78.9745	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848		4,769.7722	4,769.7722	4.5459		4,883.4204
Total	1,209.8637	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.7722	4,769.7722	4.5459	0.0000	4,883.4204

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	102.6736					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1,028.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	78.9745	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848		4,769.7722	4,769.7722	4.5459		4,883.4204
Total	1,209.8637	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.7722	4,769.7722	4.5459	0.0000	4,883.4204

7.0 Water Detail

7.1 Mitigation Measures Water

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

San Jacinto General Plan Buildout Year (2040)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6,792.24	1000sqft	155.93	6,792,240.00	0
General Office Building	759.00	1000sqft	17.42	759,001.00	0
Government (Civic Center)	335.76	1000sqft	7.71	335,763.00	0
Government Office Building	78.67	1000sqft	1.81	78,668.00	0
Government Office Building	503.55	1000sqft	11.56	503,545.00	0
Office Park	3,956.82	1000sqft	90.84	3,956,817.00	0
Library	839.41	1000sqft	19.27	839,408.00	0
General Heavy Industry	2,434.02	1000sqft	55.88	2,434,024.00	0
City Park	4.54	Acre	4.54	197,762.40	0
City Park	0.09	Acre	0.09	3,833.28	0
Apartments Low Rise	1,025.00	Dwelling Unit	64.06	203,279.00	3426
Apartments Low Rise	91.00	Dwelling Unit	5.69	118,002.00	302
Apartments Mid Rise	223.00	Dwelling Unit	5.87	74,861.00	744
Apartments Mid Rise	5,750.00	Dwelling Unit	151.32	1,138,501.00	19205
Condo/Townhouse	1,025.00	Dwelling Unit	64.06	203,279.00	3426
Condo/Townhouse	223.00	Dwelling Unit	13.94	74,861.00	744
Condo/Townhouse	5,750.00	Dwelling Unit	359.38	1,138,501.00	19205
Condo/Townhouse	91.00	Dwelling Unit	5.69	118,002.00	302
Congregate Care (Assisted Living)	50.00	Dwelling Unit	3.13	16,636.00	165
Single Family Housing	215.00	Dwelling Unit	69.81	200,829.00	718
Single Family Housing	6,033.00	Dwelling Unit	1,958.77	10,859,400.00	20149
Single Family Housing	4,098.00	Dwelling Unit	1,330.52	7,376,400.00	13686
Single Family Housing	4,785.00	Dwelling Unit	1,553.57	8,613,000.00	15981
Single Family Housing	56.00	Dwelling Unit	18.18	98,984.00	186
Single Family Housing	2,669.00	Dwelling Unit	866.56	5,157,888.00	8916
Strip Mall	759.00	1000sqft	17.42	759,001.00	0
Strip Mall	78.67	1000sqft	1.81	78,668.00	0

1.2 Other Project Characteristics

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2040
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 - Values as provided by the City of Lake Forest. Land uses types were selected based on best proxy for the land use designations provided. Unit amounts, lot acreages, and population provided by the City.

Construction Phase - Construction schedule assumes buildout by 12/31/2040.

Off-road Equipment -

Grading - Assumes grading occurs over entire Planning Area (6,855 acres).

Woodstoves - No hearths or fireplaces (not permitted in SCAQMD's jurisdiction).

Trips and VMT - For 'Building Construction' & 'Architectural Coating' phases: for res. uses, assumes 24 worker & 8 vendor trips per housing unit/day. For nonres. uses, assumes 8 worker trips & 3 vendor trips per 1000 sf/day. = 199 daily worker 68 daily vendor trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	262.00
tblConstructionPhase	NumDays	15,500.00	261.00
tblConstructionPhase	NumDays	155,000.00	3,543.00
tblConstructionPhase	NumDays	11,000.00	261.00
tblConstructionPhase	NumDays	11,000.00	674.00
tblConstructionPhase	PhaseEndDate	10/28/2044	11/1/2022
tblConstructionPhase	PhaseEndDate	3/28/2104	11/1/2023
tblConstructionPhase	PhaseEndDate	5/13/2698	6/1/2037
tblConstructionPhase	PhaseEndDate	7/12/2740	6/1/2038
tblConstructionPhase	PhaseEndDate	9/10/2782	12/31/2040
tblConstructionPhase	PhaseStartDate	10/29/2044	11/2/2022

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

tblConstructionPhase	PhaseStartDate	3/29/2104	11/2/2023
tblConstructionPhase	PhaseStartDate	5/14/2698	6/2/2037
tblConstructionPhase	PhaseStartDate	7/13/2740	6/2/2038
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	948.60	0.00
tblFireplaces	NumberGas	5,077.05	0.00
tblFireplaces	NumberGas	6,025.65	0.00
tblFireplaces	NumberGas	42.50	0.00
tblFireplaces	NumberGas	15,177.60	0.00
tblFireplaces	NumberNoFireplace	111.60	0.00
tblFireplaces	NumberNoFireplace	597.30	0.00
tblFireplaces	NumberNoFireplace	708.90	0.00
tblFireplaces	NumberNoFireplace	5.00	0.00
tblFireplaces	NumberNoFireplace	1,785.60	0.00
tblFireplaces	NumberWood	55.80	0.00
tblFireplaces	NumberWood	298.65	0.00
tblFireplaces	NumberWood	354.45	0.00
tblFireplaces	NumberWood	2.50	0.00
tblFireplaces	NumberWood	892.80	0.00
tblGrading	AcresOfGrading	783.00	6,855.00
tblGrading	AcresOfGrading	393.00	0.00
tblLandUse	LandUseSquareFeet	3,956,820.00	3,956,817.00
tblLandUse	LandUseSquareFeet	2,434,020.00	2,434,024.00
tblLandUse	LandUseSquareFeet	1,025,000.00	203,279.00
tblLandUse	LandUseSquareFeet	91,000.00	118,002.00

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

tblLandUse	LandUseSquareFeet	223,000.00	74,861.00
tblLandUse	LandUseSquareFeet	5,750,000.00	1,138,501.00
tblLandUse	LandUseSquareFeet	1,025,000.00	203,279.00
tblLandUse	LandUseSquareFeet	223,000.00	74,861.00
tblLandUse	LandUseSquareFeet	5,750,000.00	1,138,501.00
tblLandUse	LandUseSquareFeet	91,000.00	118,002.00
tblLandUse	LandUseSquareFeet	50,000.00	16,636.00
tblLandUse	LandUseSquareFeet	387,000.00	200,829.00
tblLandUse	LandUseSquareFeet	4,804,200.00	5,157,888.00
tblLandUse	LandUseSquareFeet	100,800.00	98,984.00
tblLandUse	Population	2,932.00	3,426.00
tblLandUse	Population	260.00	302.00
tblLandUse	Population	638.00	744.00
tblLandUse	Population	16,445.00	19,205.00
tblLandUse	Population	2,932.00	3,426.00
tblLandUse	Population	638.00	744.00
tblLandUse	Population	16,445.00	19,205.00
tblLandUse	Population	260.00	302.00
tblLandUse	Population	143.00	165.00
tblLandUse	Population	615.00	718.00
tblLandUse	Population	7,633.00	8,916.00
tblLandUse	Population	11,720.00	13,686.00
tblLandUse	Population	13,685.00	15,981.00
tblLandUse	Population	160.00	186.00
tblLandUse	Population	17,254.00	20,149.00
tblTripsAndVMT	VendorTripNumber	6,173.00	86.00
tblTripsAndVMT	VendorTripNumber	0.00	86.00
tblTripsAndVMT	WorkerTripNumber	22,376.00	254.00
tblTripsAndVMT	WorkerTripNumber	4,475.00	254.00

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

tblWoodstoves	NumberCatalytic	55.80	0.00
tblWoodstoves	NumberCatalytic	298.65	0.00
tblWoodstoves	NumberCatalytic	354.45	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberCatalytic	892.80	0.00
tblWoodstoves	NumberNoncatalytic	55.80	0.00
tblWoodstoves	NumberNoncatalytic	298.65	0.00
tblWoodstoves	NumberNoncatalytic	354.45	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	892.80	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.9596	40.5513	21.7883	0.0397	18.2675	2.0455	20.3130	9.9840	1.8819	11.8659	0.0000	3,858.4256	3,858.4256	1.1971	5.1000e-003	3,889.8728
2022	3.6984	38.8965	29.6868	0.0639	34.0990	1.6360	35.7350	9.9840	1.5051	11.4685	0.0000	6,197.4420	6,197.4420	1.9493	5.2000e-003	6,247.7254
2023	3.3902	34.5624	28.6454	0.0646	34.0990	1.4255	35.5246	6.3770	1.3115	7.6885	0.0000	6,439.5703	6,439.5703	1.9488	0.2972	6,545.1891

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.3724	16.9533	24.4066	0.0637	3.3899	0.6504	4.0403	0.9116	0.6119	1.5234	0.0000	6,343.0870	6,343.0870	0.6736	0.2889	6,446.0134
2025	2.2157	15.8998	23.8258	0.0627	3.3899	0.5640	3.9539	0.9115	0.5307	1.4422	0.0000	6,241.2076	6,241.2076	0.6658	0.2805	6,341.4505
2026	2.1703	15.8252	23.4055	0.0618	3.3899	0.5632	3.9532	0.9115	0.5300	1.4415	0.0000	6,146.6327	6,146.6327	0.6620	0.2728	6,244.4830
2027	2.1287	15.7575	23.0450	0.0609	3.3899	0.5624	3.9523	0.9115	0.5292	1.4407	0.0000	6,057.6005	6,057.6005	0.6588	0.2655	6,153.1792
2028	2.0912	15.7020	22.7447	0.0601	3.3899	0.5616	3.9515	0.9115	0.5284	1.4400	0.0000	5,976.6306	5,976.6306	0.6562	0.2587	6,070.1291
2029	2.0554	15.6532	22.4832	0.0594	3.3899	0.5608	3.9507	0.9115	0.5277	1.4392	0.0000	5,903.3592	5,903.3592	0.6539	0.2526	5,994.9689
2030	1.9639	11.0746	22.3322	0.0627	3.3899	0.1806	3.5705	0.9115	0.1789	1.0904	0.0000	6,178.1802	6,178.1802	0.1672	0.2470	6,255.9564
2031	1.9317	11.0553	22.1867	0.0622	3.3899	0.1793	3.5692	0.9115	0.1776	1.0892	0.0000	6,121.0253	6,121.0253	0.1657	0.2418	6,197.2330
2032	1.9027	11.0221	22.0177	0.0617	3.3899	0.1787	3.5686	0.9115	0.1771	1.0886	0.0000	6,068.8920	6,068.8920	0.1642	0.2375	6,143.7735
2033	1.8769	10.9938	21.8735	0.0612	3.3899	0.1781	3.5680	0.9115	0.1766	1.0881	0.0000	6,022.9603	6,022.9603	0.1629	0.2338	6,096.6919
2034	1.8538	10.9678	21.7443	0.0608	3.3899	0.1776	3.5675	0.9115	0.1761	1.0876	0.0000	5,982.0359	5,982.0359	0.1618	0.2304	6,054.7445
2035	1.7409	10.1722	21.5949	0.0605	3.3899	0.1194	3.5093	0.9115	0.1179	1.0294	0.0000	5,946.0367	5,946.0367	0.1524	0.2275	6,017.6502
2036	1.7409	10.1722	21.5949	0.0605	3.3899	0.1194	3.5093	0.9115	0.1179	1.0294	0.0000	5,946.0367	5,946.0367	0.1524	0.2275	6,017.6502
2037	1.7409	10.1722	21.5949	0.0605	3.3899	0.1878	3.5093	0.9115	0.1877	1.0294	0.0000	5,946.0367	5,946.0367	0.1524	0.2275	6,017.6502
2038	556.6634	4.8899	16.0761	0.0325	3.3899	0.1878	3.4287	0.9115	0.1877	0.9489	0.0000	3,329.9380	3,329.9380	0.1036	0.2275	3,399.1135
2039	556.6634	3.7686	7.2714	0.0325	3.3899	0.0389	3.4287	0.9115	0.0374	0.9489	0.0000	3,329.9380	3,329.9380	0.0549	0.2275	3,399.1135
2040	556.5849	3.6735	6.9029	0.0313	3.3899	0.0348	3.4247	0.9115	0.0335	0.9450	0.0000	3,209.4770	3,209.4770	0.0508	0.2180	3,275.7218
Maximum	556.6634	40.5513	29.6868	0.0646	34.0990	2.0455	35.7350	9.9840	1.8819	11.8659	0.0000	6,439.5703	6,439.5703	1.9493	0.2972	6,545.1891

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.9596	40.5513	21.7883	0.0397	18.2675	2.0455	20.3130	9.9840	1.8819	11.8659	0.0000	3,858.4256	3,858.4256	1.1971	5.1000e-003	3,889.8728
2022	3.6984	38.8965	29.6868	0.0639	34.0990	1.6360	35.7350	9.9840	1.5051	11.4685	0.0000	6,197.4420	6,197.4420	1.9493	5.2000e-003	6,247.7254
2023	3.3902	34.5624	28.6454	0.0646	34.0990	1.4255	35.5246	6.3770	1.3115	7.6885	0.0000	6,439.5703	6,439.5703	1.9488	0.2972	6,545.1891
2024	2.3724	16.9533	24.4066	0.0637	3.3899	0.6504	4.0403	0.9116	0.6119	1.5234	0.0000	6,343.0870	6,343.0870	0.6736	0.2889	6,446.0134
2025	2.2157	15.8998	23.8258	0.0627	3.3899	0.5640	3.9539	0.9115	0.5307	1.4422	0.0000	6,241.2076	6,241.2076	0.6658	0.2805	6,341.4505
2026	2.1703	15.8252	23.4055	0.0618	3.3899	0.5632	3.9532	0.9115	0.5300	1.4415	0.0000	6,146.6327	6,146.6327	0.6620	0.2728	6,244.4830
2027	2.1287	15.7575	23.0450	0.0609	3.3899	0.5624	3.9523	0.9115	0.5292	1.4407	0.0000	6,057.6005	6,057.6005	0.6588	0.2655	6,153.1792
2028	2.0912	15.7020	22.7447	0.0601	3.3899	0.5616	3.9515	0.9115	0.5284	1.4400	0.0000	5,976.6306	5,976.6306	0.6562	0.2587	6,070.1291
2029	2.0554	15.6532	22.4832	0.0594	3.3899	0.5608	3.9507	0.9115	0.5277	1.4392	0.0000	5,903.3592	5,903.3592	0.6539	0.2526	5,994.9689
2030	1.9639	11.0746	22.3322	0.0627	3.3899	0.1806	3.5705	0.9115	0.1789	1.0904	0.0000	6,178.1802	6,178.1802	0.1672	0.2470	6,255.9564
2031	1.9317	11.0553	22.1867	0.0622	3.3899	0.1793	3.5692	0.9115	0.1776	1.0892	0.0000	6,121.0253	6,121.0253	0.1657	0.2418	6,197.2330
2032	1.9027	11.0221	22.0177	0.0617	3.3899	0.1787	3.5686	0.9115	0.1771	1.0886	0.0000	6,068.8920	6,068.8920	0.1642	0.2375	6,143.7735
2033	1.8769	10.9938	21.8735	0.0612	3.3899	0.1781	3.5680	0.9115	0.1766	1.0881	0.0000	6,022.9603	6,022.9603	0.1629	0.2338	6,096.6919
2034	1.8538	10.9678	21.7443	0.0608	3.3899	0.1776	3.5675	0.9115	0.1761	1.0876	0.0000	5,982.0359	5,982.0359	0.1618	0.2304	6,054.7445
2035	1.7409	10.1722	21.5949	0.0605	3.3899	0.1194	3.5093	0.9115	0.1179	1.0294	0.0000	5,946.0367	5,946.0367	0.1524	0.2275	6,017.6502
2036	1.7409	10.1722	21.5949	0.0605	3.3899	0.1194	3.5093	0.9115	0.1179	1.0294	0.0000	5,946.0367	5,946.0367	0.1524	0.2275	6,017.6502

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,209.863 7	30.4338	2,637.020 8	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.772 2	4,769.772 2	4.5459	0.0000	4,883.420 4
Energy	26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3 013	292,129.3 013	5.5991	5.3557	293,865.2 797
Mobile	886.4497	1,200.591 7	9,481.516 4	23.8584	3,547.809 5	13.5827	3,561.392 2	945.4829	12.7611	958.2440		2,432,336. 4456	2,432,336. 4456	120.4682	116.9951	2,470,212. 6797
Total	2,123.091 8	1,462.247 8	12,233.42 35	25.4589	3,547.809 5	46.7690	3,594.578 5	945.4829	45.9474	991.4303	0.0000	2,729,235. 5191	2,729,235. 5191	130.6133	122.3508	2,768,961. 3797

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1,209.863 7	30.4338	2,637.020 8	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.772 2	4,769.772 2	4.5459	0.0000	4,883.420 4
Energy	26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3 013	292,129.3 013	5.5991	5.3557	293,865.2 797
Mobile	886.4497	1,200.591 7	9,481.516 4	23.8584	3,547.809 5	13.5827	3,561.392 2	945.4829	12.7611	958.2440		2,432,336. 4456	2,432,336. 4456	120.4682	116.9951	2,470,212. 6797
Total	2,123.091 8	1,462.247 8	12,233.42 35	25.4589	3,547.809 5	46.7690	3,594.578 5	945.4829	45.9474	991.4303	0.0000	2,729,235. 5191	2,729,235. 5191	130.6133	122.3508	2,768,961. 3797

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/1/2021	11/1/2022	5	262	
2	Grading	Grading	11/2/2022	11/1/2023	5	261	
3	Building Construction	Building Construction	11/2/2023	6/1/2037	5	3543	
4	Paving	Paving	6/2/2037	6/1/2038	5	261	
5	Architectural Coating	Architectural Coating	6/2/2038	12/31/2040	5	674	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6855

Acres of Paving: 0

Residential Indoor: 71,669,657; Residential Outdoor: 23,889,886; Non-Residential Indoor: 24,805,703; Non-Residential Outdoor: 8,268,568; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	254.00	86.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	254.00	86.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0715	0.0542	0.6341	1.7100e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		172.7687	172.7687	5.0900e-003	5.1000e-003	174.4155
Total	0.0715	0.0542	0.6341	1.7100e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		172.7687	172.7687	5.0900e-003	5.1000e-003	174.4155

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0715	0.0542	0.6341	1.7100e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		172.7687	172.7687	5.0900e-003	5.1000e-003	174.4155
Total	0.0715	0.0542	0.6341	1.7100e-003	0.2012	1.0700e-003	0.2023	0.0534	9.8000e-004	0.0543		172.7687	172.7687	5.0900e-003	5.1000e-003	174.4155

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0662	0.0477	0.5807	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		167.4284	167.4284	4.5800e-003	4.6800e-003	168.9386
Total	0.0662	0.0477	0.5807	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		167.4284	167.4284	4.5800e-003	4.6800e-003	168.9386

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0662	0.0477	0.5807	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		167.4284	167.4284	4.5800e-003	4.6800e-003	168.9386
Total	0.0662	0.0477	0.5807	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		167.4284	167.4284	4.5800e-003	4.6800e-003	168.9386

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					33.8755	0.0000	33.8755	6.3177	0.0000	6.3177			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	33.8755	1.6349	35.5104	6.3177	1.5041	7.8218		6,011.4105	6,011.4105	1.9442		6,060.0158

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0736	0.0530	0.6453	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		186.0315	186.0315	5.0800e-003	5.2000e-003	187.7096
Total	0.0736	0.0530	0.6453	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		186.0315	186.0315	5.0800e-003	5.2000e-003	187.7096

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					33.8755	0.0000	33.8755	6.3177	0.0000	6.3177			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	33.8755	1.6349	35.5104	6.3177	1.5041	7.8218	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0736	0.0530	0.6453	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		186.0315	186.0315	5.0800e-003	5.2000e-003	187.7096
Total	0.0736	0.0530	0.6453	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0200e-003	0.0603		186.0315	186.0315	5.0800e-003	5.2000e-003	187.7096

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					33.8755	0.0000	33.8755	6.3177	0.0000	6.3177			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	33.8755	1.4245	35.3000	6.3177	1.3105	7.6283		6,011.4777	6,011.4777	1.9442		6,060.0836

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0684	0.0468	0.5942	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		180.0847	180.0847	4.5800e-003	4.8000e-003	181.6302
Total	0.0684	0.0468	0.5942	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		180.0847	180.0847	4.5800e-003	4.8000e-003	181.6302

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					33.8755	0.0000	33.8755	6.3177	0.0000	6.3177			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6
Total	3.3217	34.5156	28.0512	0.0621	33.8755	1.4245	35.3000	6.3177	1.3105	7.6283	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0684	0.0468	0.5942	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		180.0847	180.0847	4.5800e-003	4.8000e-003	181.6302
Total	0.0684	0.0468	0.5942	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		180.0847	180.0847	4.5800e-003	4.8000e-003	181.6302

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0898	2.9797	1.1958	0.0151	0.5508	0.0246	0.5754	0.1586	0.0235	0.1821		1,597.2849	1,597.2849	0.0159	0.2362	1,668.0798
Worker	0.8693	0.5946	7.5462	0.0226	2.8391	0.0133	2.8524	0.7530	0.0122	0.7652		2,287.0756	2,287.0756	0.0582	0.0610	2,306.7032
Total	0.9590	3.5743	8.7420	0.0377	3.3900	0.0378	3.4278	0.9116	0.0357	0.9473		3,884.3604	3,884.3604	0.0741	0.2972	3,974.7830

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0898	2.9797	1.1958	0.0151	0.5508	0.0246	0.5754	0.1586	0.0235	0.1821		1,597.2849	1,597.2849	0.0159	0.2362	1,668.0798
Worker	0.8693	0.5946	7.5462	0.0226	2.8391	0.0133	2.8524	0.7530	0.0122	0.7652		2,287.0756	2,287.0756	0.0582	0.0610	2,306.7032
Total	0.9590	3.5743	8.7420	0.0377	3.3900	0.0378	3.4278	0.9116	0.0357	0.9473		3,884.3604	3,884.3604	0.0741	0.2972	3,974.7830

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0883	2.9801	1.1825	0.0148	0.5508	0.0244	0.5752	0.1586	0.0233	0.1819		1,572.6945	1,572.6945	0.0165	0.2322	1,642.3128
Worker	0.8126	0.5294	7.0573	0.0219	2.8391	0.0127	2.8518	0.7530	0.0117	0.7646		2,214.6936	2,214.6936	0.0528	0.0566	2,232.8929
Total	0.9008	3.5095	8.2398	0.0367	3.3899	0.0371	3.4270	0.9116	0.0350	0.9465		3,787.3881	3,787.3881	0.0693	0.2889	3,875.2057

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2024

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0883	2.9801	1.1825	0.0148	0.5508	0.0244	0.5752	0.1586	0.0233	0.1819		1,572.6945	1,572.6945	0.0165	0.2322	1,642.3128
Worker	0.8126	0.5294	7.0573	0.0219	2.8391	0.0127	2.8518	0.7530	0.0117	0.7646		2,214.6936	2,214.6936	0.0528	0.0566	2,232.8929
Total	0.9008	3.5095	8.2398	0.0367	3.3899	0.0371	3.4270	0.9116	0.0350	0.9465		3,787.3881	3,787.3881	0.0693	0.2889	3,875.2057

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0870	2.9557	1.1695	0.0146	0.5508	0.0244	0.5752	0.1586	0.0234	0.1819		1,544.994 5	1,544.994 5	0.0171	0.2277	1,613.271 9
Worker	0.7613	0.4744	6.5716	0.0212	2.8391	0.0120	2.8511	0.7530	0.0111	0.7640		2,139.738 7	2,139.738 7	0.0477	0.0529	2,156.680 6
Total	0.8483	3.4301	7.7411	0.0357	3.3899	0.0364	3.4264	0.9115	0.0344	0.9460		3,684.733 2	3,684.733 2	0.0648	0.2805	3,769.952 5

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0870	2.9557	1.1695	0.0146	0.5508	0.0244	0.5752	0.1586	0.0234	0.1819		1,544.994 5	1,544.994 5	0.0171	0.2277	1,613.271 9
Worker	0.7613	0.4744	6.5716	0.0212	2.8391	0.0120	2.8511	0.7530	0.0111	0.7640		2,139.738 7	2,139.738 7	0.0477	0.0529	2,156.680 6
Total	0.8483	3.4301	7.7411	0.0357	3.3899	0.0364	3.4264	0.9115	0.0344	0.9460		3,684.733 2	3,684.733 2	0.0648	0.2805	3,769.952 5

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0859	2.9263	1.1586	0.0143	0.5508	0.0243	0.5751	0.1586	0.0232	0.1818		1,516.901 4	1,516.901 4	0.0177	0.2231	1,583.830 0
Worker	0.7170	0.4292	6.1622	0.0205	2.8391	0.0114	2.8505	0.7530	0.0105	0.7634		2,073.257 0	2,073.257 0	0.0433	0.0497	2,089.154 9
Total	0.8029	3.3555	7.3208	0.0348	3.3899	0.0357	3.4256	0.9115	0.0337	0.9453		3,590.158 4	3,590.158 4	0.0611	0.2728	3,672.984 9

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0859	2.9263	1.1586	0.0143	0.5508	0.0243	0.5751	0.1586	0.0232	0.1818		1,516.901 4	1,516.901 4	0.0177	0.2231	1,583.830 0
Worker	0.7170	0.4292	6.1622	0.0205	2.8391	0.0114	2.8505	0.7530	0.0105	0.7634		2,073.257 0	2,073.257 0	0.0433	0.0497	2,089.154 9
Total	0.8029	3.3555	7.3208	0.0348	3.3899	0.0357	3.4256	0.9115	0.0337	0.9453		3,590.158 4	3,590.158 4	0.0611	0.2728	3,672.984 9

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0850	2.8968	1.1498	0.0140	0.5508	0.0242	0.5750	0.1586	0.0231	0.1817		1,487.350 6	1,487.350 6	0.0183	0.2184	1,552.887 1
Worker	0.6763	0.3910	5.8105	0.0199	2.8391	0.0107	2.8498	0.7530	9.8200e-003	0.7628		2,013.775 5	2,013.775 5	0.0396	0.0471	2,028.794 0
Total	0.7613	3.2878	6.9603	0.0339	3.3899	0.0348	3.4248	0.9115	0.0329	0.9445		3,501.126 1	3,501.126 1	0.0579	0.2655	3,581.681 1

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0850	2.8968	1.1498	0.0140	0.5508	0.0242	0.5750	0.1586	0.0231	0.1817		1,487.350 6	1,487.350 6	0.0183	0.2184	1,552.887 1
Worker	0.6763	0.3910	5.8105	0.0199	2.8391	0.0107	2.8498	0.7530	9.8200e-003	0.7628		2,013.775 5	2,013.775 5	0.0396	0.0471	2,028.794 0
Total	0.7613	3.2878	6.9603	0.0339	3.3899	0.0348	3.4248	0.9115	0.0329	0.9445		3,501.126 1	3,501.126 1	0.0579	0.2655	3,581.681 1

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0843	2.8733	1.1437	0.0137	0.5508	0.0241	0.5748	0.1586	0.0230	0.1816		1,458.973 5	1,458.973 5	0.0189	0.2138	1,523.164 9
Worker	0.6395	0.3591	5.5164	0.0194	2.8391	9.9500e-003	2.8491	0.7530	9.1600e-003	0.7621		1,961.182 7	1,961.182 7	0.0363	0.0449	1,975.466 2
Total	0.7238	3.2324	6.6600	0.0331	3.3899	0.0340	3.4239	0.9115	0.0322	0.9437		3,420.156 2	3,420.156 2	0.0552	0.2587	3,498.631 1

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0843	2.8733	1.1437	0.0137	0.5508	0.0241	0.5748	0.1586	0.0230	0.1816		1,458.973 5	1,458.973 5	0.0189	0.2138	1,523.164 9
Worker	0.6395	0.3591	5.5164	0.0194	2.8391	9.9500e-003	2.8491	0.7530	9.1600e-003	0.7621		1,961.182 7	1,961.182 7	0.0363	0.0449	1,975.466 2
Total	0.7238	3.2324	6.6600	0.0331	3.3899	0.0340	3.4239	0.9115	0.0322	0.9437		3,420.156 2	3,420.156 2	0.0552	0.2587	3,498.631 1

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0837	2.8519	1.1389	0.0135	0.5508	0.0239	0.5747	0.1586	0.0229	0.1815		1,432.257 4	1,432.257 4	0.0194	0.2095	1,495.185 6
Worker	0.6043	0.3316	5.2597	0.0189	2.8391	9.2700e-003	2.8484	0.7530	8.5300e-003	0.7615		1,914.627 5	1,914.627 5	0.0335	0.0430	1,928.285 2
Total	0.6880	3.1835	6.3985	0.0324	3.3899	0.0332	3.4231	0.9115	0.0314	0.9430		3,346.884 9	3,346.884 9	0.0529	0.2526	3,423.470 8

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0837	2.8519	1.1389	0.0135	0.5508	0.0239	0.5747	0.1586	0.0229	0.1815		1,432.257 4	1,432.257 4	0.0194	0.2095	1,495.185 6
Worker	0.6043	0.3316	5.2597	0.0189	2.8391	9.2700e-003	2.8484	0.7530	8.5300e-003	0.7615		1,914.627 5	1,914.627 5	0.0335	0.0430	1,928.285 2
Total	0.6880	3.1835	6.3985	0.0324	3.3899	0.0332	3.4231	0.9115	0.0314	0.9430		3,346.884 9	3,346.884 9	0.0529	0.2526	3,423.470 8

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0833	2.8319	1.1354	0.0132	0.5508	0.0238	0.5746	0.1586	0.0228	0.1814		1,407.1239	1,407.1239	0.0200	0.2055	1,468.8673
Worker	0.5715	0.3081	5.0398	0.0185	2.8391	8.6500e-003	2.8478	0.7530	7.9600e-003	0.7609		1,873.5096	1,873.5096	0.0310	0.0415	1,886.6363
Total	0.6547	3.1400	6.1752	0.0318	3.3899	0.0325	3.4224	0.9115	0.0307	0.9423		3,280.6335	3,280.6335	0.0510	0.2470	3,355.5036

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0833	2.8319	1.1354	0.0132	0.5508	0.0238	0.5746	0.1586	0.0228	0.1814		1,407.1239	1,407.1239	0.0200	0.2055	1,468.8673
Worker	0.5715	0.3081	5.0398	0.0185	2.8391	8.6500e-003	2.8478	0.7530	7.9600e-003	0.7609		1,873.5096	1,873.5096	0.0310	0.0415	1,886.6363
Total	0.6547	3.1400	6.1752	0.0318	3.3899	0.0325	3.4224	0.9115	0.0307	0.9423		3,280.6335	3,280.6335	0.0510	0.2470	3,355.5036

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0829	2.8331	1.1366	0.0130	0.5508	0.0230	0.5737	0.1586	0.0220	0.1805		1,382.9596	1,382.9596	0.0205	0.2017	1,443.5739
Worker	0.5396	0.2875	4.8931	0.0182	2.8391	8.2000e-003	2.8473	0.7530	7.5400e-003	0.7605		1,840.5189	1,840.5189	0.0289	0.0402	1,853.2063
Total	0.6225	3.1207	6.0297	0.0312	3.3899	0.0312	3.4210	0.9115	0.0295	0.9410		3,223.4785	3,223.4785	0.0494	0.2418	3,296.7802

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0829	2.8331	1.1366	0.0130	0.5508	0.0230	0.5737	0.1586	0.0220	0.1805		1,382.9596	1,382.9596	0.0205	0.2017	1,443.5739
Worker	0.5396	0.2875	4.8931	0.0182	2.8391	8.2000e-003	2.8473	0.7530	7.5400e-003	0.7605		1,840.5189	1,840.5189	0.0289	0.0402	1,853.2063
Total	0.6225	3.1207	6.0297	0.0312	3.3899	0.0312	3.4210	0.9115	0.0295	0.9410		3,223.4785	3,223.4785	0.0494	0.2418	3,296.7802

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0829	2.8175	1.1376	0.0128	0.5508	0.0229	0.5736	0.1586	0.0219	0.1805		1,362.8514	1,362.8514	0.0210	0.1985	1,422.5261
Worker	0.5107	0.2700	4.7232	0.0179	2.8391	7.6800e-003	2.8468	0.7530	7.0600e-003	0.7600		1,808.4939	1,808.4939	0.0270	0.0390	1,820.7945
Total	0.5936	3.0875	5.8607	0.0307	3.3899	0.0305	3.4204	0.9115	0.0289	0.9405		3,171.3453	3,171.3453	0.0479	0.2375	3,243.3206

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0829	2.8175	1.1376	0.0128	0.5508	0.0229	0.5736	0.1586	0.0219	0.1805		1,362.8514	1,362.8514	0.0210	0.1985	1,422.5261
Worker	0.5107	0.2700	4.7232	0.0179	2.8391	7.6800e-003	2.8468	0.7530	7.0600e-003	0.7600		1,808.4939	1,808.4939	0.0270	0.0390	1,820.7945
Total	0.5936	3.0875	5.8607	0.0307	3.3899	0.0305	3.4204	0.9115	0.0289	0.9405		3,171.3453	3,171.3453	0.0479	0.2375	3,243.3206

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0829	2.8037	1.1401	0.0126	0.5508	0.0228	0.5735	0.1586	0.0218	0.1804		1,345.0519	1,345.0519	0.0214	0.1957	1,403.8989
Worker	0.4848	0.2555	4.5764	0.0176	2.8391	7.2100e-003	2.8463	0.7530	6.6300e-003	0.7596		1,780.3617	1,780.3617	0.0253	0.0381	1,792.3401
Total	0.5678	3.0592	5.7165	0.0303	3.3899	0.0300	3.4199	0.9115	0.0284	0.9399		3,125.4135	3,125.4135	0.0467	0.2338	3,196.2391

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0829	2.8037	1.1401	0.0126	0.5508	0.0228	0.5735	0.1586	0.0218	0.1804		1,345.0519	1,345.0519	0.0214	0.1957	1,403.8989
Worker	0.4848	0.2555	4.5764	0.0176	2.8391	7.2100e-003	2.8463	0.7530	6.6300e-003	0.7596		1,780.3617	1,780.3617	0.0253	0.0381	1,792.3401
Total	0.5678	3.0592	5.7165	0.0303	3.3899	0.0300	3.4199	0.9115	0.0284	0.9399		3,125.4135	3,125.4135	0.0467	0.2338	3,196.2391

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0831	2.7898	1.1429	0.0125	0.5508	0.0227	0.5734	0.1586	0.0217	0.1803		1,328.8510	1,328.8510	0.0218	0.1931	1,386.9475
Worker	0.4616	0.2434	4.4444	0.0174	2.8391	6.7800e-003	2.8459	0.7530	6.2400e-003	0.7592		1,755.6381	1,755.6381	0.0237	0.0373	1,767.3442
Total	0.5447	3.0332	5.5873	0.0299	3.3899	0.0295	3.4193	0.9115	0.0279	0.9395		3,084.4891	3,084.4891	0.0455	0.2304	3,154.2917

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2034

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0831	2.7898	1.1429	0.0125	0.5508	0.0227	0.5734	0.1586	0.0217	0.1803		1,328.8510	1,328.8510	0.0218	0.1931	1,386.9475
Worker	0.4616	0.2434	4.4444	0.0174	2.8391	6.7800e-003	2.8459	0.7530	6.2400e-003	0.7592		1,755.6381	1,755.6381	0.0237	0.0373	1,767.3442
Total	0.5447	3.0332	5.5873	0.0299	3.3899	0.0295	3.4193	0.9115	0.0279	0.9395		3,084.4891	3,084.4891	0.0455	0.2304	3,154.2917

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2035

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2036

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.5 Paving - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0260	0.0138	0.2558	1.0100e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		102.4071	102.4071	1.3200e-003	2.1700e-003	103.0855
Total	0.0260	0.0138	0.2558	1.0100e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		102.4071	102.4071	1.3200e-003	2.1700e-003	103.0855

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.5 Paving - 2037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0260	0.0138	0.2558	1.0100e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		102.4071	102.4071	1.3200e-003	2.1700e-003	103.0855
Total	0.0260	0.0138	0.2558	1.0100e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		102.4071	102.4071	1.3200e-003	2.1700e-003	103.0855

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.5 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0260	0.0138	0.2558	1.0100e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		102.4071	102.4071	1.3200e-003	2.1700e-003	103.0855
Total	0.0260	0.0138	0.2558	1.0100e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		102.4071	102.4071	1.3200e-003	2.1700e-003	103.0855

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.5 Paving - 2038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0260	0.0138	0.2558	1.0100e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		102.4071	102.4071	1.3200e-003	2.1700e-003	103.0855
Total	0.0260	0.0138	0.2558	1.0100e-003	0.1677	3.8000e-004	0.1680	0.0445	3.5000e-004	0.0448		102.4071	102.4071	1.3200e-003	2.1700e-003	103.0855

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.6 Architectural Coating - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	556.1394	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.6 Architectural Coating - 2038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	556.1394	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.6 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	556.1394	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.6 Architectural Coating - 2039

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	556.1394	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0832	2.7769	1.1456	0.0124	0.5508	0.0226	0.5733	0.1586	0.0216	0.1802		1,314.3965	1,314.3965	0.0221	0.1909	1,371.8243
Worker	0.4408	0.2339	4.3315	0.0172	2.8391	6.3900e-003	2.8455	0.7530	5.8800e-003	0.7588		1,734.0934	1,734.0934	0.0224	0.0367	1,745.5812
Total	0.5241	3.0108	5.4771	0.0295	3.3899	0.0290	3.4188	0.9115	0.0275	0.9390		3,048.4899	3,048.4899	0.0445	0.2275	3,117.4054

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.6 Architectural Coating - 2040

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	556.1364	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0845	2.7418	1.1575	0.0119	0.5508	0.0223	0.5731	0.1586	0.0214	0.1799		1,264.3816	1,264.3816	0.0231	0.1832	1,319.5539
Worker	0.3640	0.2047	3.9531	0.0165	2.8391	5.0800e-003	2.8442	0.7530	4.6800e-003	0.7576		1,663.6474	1,663.6474	0.0178	0.0348	1,674.4723
Total	0.4485	2.9465	5.1106	0.0283	3.3899	0.0274	3.4173	0.9115	0.0260	0.9376		2,928.0290	2,928.0290	0.0409	0.2180	2,994.0262

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

3.6 Architectural Coating - 2040

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	556.0215					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	556.1364	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0845	2.7418	1.1575	0.0119	0.5508	0.0223	0.5731	0.1586	0.0214	0.1799		1,264.3816	1,264.3816	0.0231	0.1832	1,319.5539
Worker	0.3640	0.2047	3.9531	0.0165	2.8391	5.0800e-003	2.8442	0.7530	4.6800e-003	0.7576		1,663.6474	1,663.6474	0.0178	0.0348	1,674.4723
Total	0.4485	2.9465	5.1106	0.0283	3.3899	0.0274	3.4173	0.9115	0.0260	0.9376		2,928.0290	2,928.0290	0.0409	0.2180	2,994.0262

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	886.4497	1,200.5917	9,481.5164	23.8584	3,547.8095	13.5827	3,561.3922	945.4829	12.7611	958.2440		2,432,336.4456	2,432,336.4456	120.4682	116.9951	2,470,212.6797
Unmitigated	886.4497	1,200.5917	9,481.5164	23.8584	3,547.8095	13.5827	3,561.3922	945.4829	12.7611	958.2440		2,432,336.4456	2,432,336.4456	120.4682	116.9951	2,470,212.6797

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,503.00	8,343.50	6437.00	25,528,810	25,528,810
Apartments Low Rise	666.12	740.74	571.48	2,266,460	2,266,460
Apartments Mid Rise	1,213.12	1,094.93	912.07	3,940,757	3,940,757
Apartments Mid Rise	31,280.00	28,232.50	23517.50	101,611,453	101,611,453
City Park	3.54	8.90	9.94	15,024	15,024
City Park	0.07	0.17	0.19	291	291
Condo/Townhouse	7,503.00	8,343.50	6437.00	25,528,810	25,528,810
Condo/Townhouse	1,632.36	1,815.22	1400.44	5,554,073	5,554,073
Condo/Townhouse	42,090.00	46,805.00	36110.00	143,210,396	143,210,396
Condo/Townhouse	666.12	740.74	571.48	2,266,460	2,266,460
Congregate Care (Assisted Living)	130.00	146.50	157.50	465,709	465,709
General Heavy Industry	9,565.71	15,626.43	12389.18	47,979,873	47,979,873
General Office Building	66,156.42	15,010.85	4754.57	161,325,016	161,325,016
General Office Building	7,392.67	1,677.39	531.30	18,027,315	18,027,315

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	11,409.23	0.00	0.00	25,166,558	25,166,558
Government Office Building	1,777.11	0.00	0.00	2,989,055	2,989,055
Government Office Building	11,375.08	0.00	0.00	19,132,604	19,132,604
Library	60,479.35	67,228.19	35330.68	146,055,094	146,055,094
Office Park	43,801.96	6,489.18	3007.18	110,291,797	110,291,797
Single Family Housing	2,029.60	2,051.10	1838.25	6,852,537	6,852,537
Single Family Housing	56,951.52	57,554.82	51582.15	192,285,369	192,285,369
Single Family Housing	38,685.12	39,094.92	35037.90	130,612,538	130,612,538
Single Family Housing	45,170.40	45,648.90	40911.75	152,508,784	152,508,784
Single Family Housing	528.64	534.24	478.80	1,784,847	1,784,847
Single Family Housing	25,195.36	25,462.26	22819.95	85,067,073	85,067,073
Strip Mall	33,638.92	31,908.40	15506.39	58,602,492	58,602,492
Strip Mall	3,486.57	3,307.20	1607.19	6,073,959	6,073,959
Total	510,330.99	407,865.59	301,919.90	1,475,143,153	1,475,143,153

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Apartments Mid Rise	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
City Park	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Condo/Townhouse	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Congregate Care (Assisted Living)	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
General Heavy Industry	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
General Office Building	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Government (Civic Center)	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Government Office Building	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Library	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Office Park	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Single Family Housing	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Strip Mall	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938

5.0 Energy Detail

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797
NaturalGas Unmitigated	26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	3771.12	0.0407	0.3475	0.1479	2.2200e-003		0.0281	0.0281		0.0281	0.0281		443.6609	443.6609	8.5000e-003	8.1300e-003	446.2973
Apartments Low Rise	42476.9	0.4581	3.9145	1.6658	0.0250		0.3165	0.3165		0.3165	0.3165		4,997.2789	4,997.2789	0.0958	0.0916	5,026.9752
Apartments Mid Rise	226568	2.4434	20.8798	8.8850	0.1333		1.6882	1.6882		1.6882	1.6882		26,655.1096	26,655.1096	0.5109	0.4887	26,813.5076
Apartments Mid Rise	8786.91	0.0948	0.8098	0.3446	5.1700e-003		0.0655	0.0655		0.0655	0.0655		1,033.7547	1,033.7547	0.0198	0.0190	1,039.8978
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

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	12891.2	0.1390	1.1880	0.5055	7.5800e-003		0.0961	0.0961		0.0961	0.0961		1,516.6135	1,516.6135	0.0291	0.0278	1,525.6260
Condo/Townhouse	332397	3.5847	30.6327	13.0352	0.1955		2.4767	2.4767		2.4767	2.4767		39,105.5044	39,105.5044	0.7495	0.7169	39,337.8889
Condo/Townhouse	5260.54	0.0567	0.4848	0.2063	3.0900e-003		0.0392	0.0392		0.0392	0.0392		618.8871	618.8871	0.0119	0.0114	622.5649
Condo/Townhouse	59253.3	0.6390	5.4606	2.3237	0.0349		0.4415	0.4415		0.4415	0.4415		6,970.9812	6,970.9812	0.1336	0.1278	7,012.4063
Congregate Care (Assisted Living)	1970.16	0.0213	0.1816	0.0773	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.7836	231.7836	4.4400e-003	4.2500e-003	233.1609
General Heavy Industry	215595	2.3250	21.1367	17.7548	0.1268		1.6064	1.6064		1.6064	1.6064		25,364.0599	25,364.0599	0.4861	0.4650	25,514.7859
General Office Building	63828.4	0.6884	6.2577	5.2565	0.0376		0.4756	0.4756		0.4756	0.4756		7,509.2291	7,509.2291	0.1439	0.1377	7,553.8527
General Office Building	7132.53	0.0769	0.6993	0.5874	4.2000e-003		0.0531	0.0531		0.0531	0.0531		839.1212	839.1212	0.0161	0.0154	844.1077
Government (Civic Center)	3155.25	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.2062	371.2062	7.1100e-003	6.8100e-003	373.4121
Government Office Building	4731.94	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.6992	556.6992	0.0107	0.0102	560.0074
Government Office Building	739.264	7.9700e-003	0.0725	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9722	86.9722	1.6700e-003	1.5900e-003	87.4890
Library	74350.9	0.8018	7.2893	6.1230	0.0437		0.5540	0.5540		0.5540	0.5540		8,747.1590	8,747.1590	0.1677	0.1604	8,799.1389
Office Park	31329.3	0.3379	3.0715	2.5801	0.0184		0.2334	0.2334		0.2334	0.2334		3,685.8021	3,685.8021	0.0706	0.0676	3,707.7050
Single Family Housing	16662.2	0.1797	1.5355	0.6534	9.8000e-003		0.1242	0.1242		0.1242	0.1242		1,960.2553	1,960.2553	0.0376	0.0359	1,971.9041
Single Family Housing	206843	2.2307	19.0620	8.1115	0.1217		1.5412	1.5412		1.5412	1.5412		24,334.5183	24,334.5183	0.4664	0.4461	24,479.1261
Single Family Housing	317589	3.4250	29.2680	12.4545	0.1868		2.3664	2.3664		2.3664	2.3664		37,363.3780	37,363.3780	0.7161	0.6850	37,585.4098
Single Family Housing	370830	3.9992	34.1745	14.5424	0.2181		2.7631	2.7631		2.7631	2.7631		43,627.0775	43,627.0775	0.8362	0.7998	43,886.3314
Single Family Housing	4339.91	0.0468	0.4000	0.1702	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.5781	510.5781	9.7900e-003	9.3600e-003	513.6122
Single Family Housing	467548	5.0422	43.0878	18.3352	0.2750		3.4837	3.4837		3.4837	3.4837		55,005.6758	55,005.6758	1.0543	1.0084	55,332.5470

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	4574.8	0.0493	0.4485	0.3768	2.6900e-003		0.0341	0.0341		0.0341	0.0341		538.2118	538.2118	0.0103	9.8700e-003	541.4102
Strip Mall	474.163	5.1100e-003	0.0465	0.0391	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003		55.7839	55.7839	1.0700e-003	1.0200e-003	56.1154
Total		26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	3.77112	0.0407	0.3475	0.1479	2.2200e-003		0.0281	0.0281		0.0281	0.0281		443.6609	443.6609	8.5000e-003	8.1300e-003	446.2973
Apartments Low Rise	42.4769	0.4581	3.9145	1.6658	0.0250		0.3165	0.3165		0.3165	0.3165		4,997.2789	4,997.2789	0.0958	0.0916	5,026.9752
Apartments Mid Rise	226.568	2.4434	20.8798	8.8850	0.1333		1.6882	1.6882		1.6882	1.6882		26,655.1096	26,655.1096	0.5109	0.4887	26,813.5076
Apartments Mid Rise	8.78691	0.0948	0.8098	0.3446	5.1700e-003		0.0655	0.0655		0.0655	0.0655		1,033.7547	1,033.7547	0.0198	0.0190	1,039.8978
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
Condo/Townhouse	12.8912	0.1390	1.1880	0.5055	7.5800e-003		0.0961	0.0961		0.0961	0.0961		1,516.6135	1,516.6135	0.0291	0.0278	1,525.6260
Condo/Townhouse	332.397	3.5847	30.6327	13.0352	0.1955		2.4767	2.4767		2.4767	2.4767		39,105.5044	39,105.5044	0.7495	0.7169	39,337.8889
Condo/Townhouse	5.26054	0.0567	0.4848	0.2063	3.0900e-003		0.0392	0.0392		0.0392	0.0392		618.8871	618.8871	0.0119	0.0114	622.5649
Condo/Townhouse	59.2533	0.6390	5.4606	2.3237	0.0349		0.4415	0.4415		0.4415	0.4415		6,970.9812	6,970.9812	0.1336	0.1278	7,012.4063

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Congregate Care (Assisted Living)	1.97016	0.0213	0.1816	0.0773	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.7836	231.7836	4.4400e-003	4.2500e-003	233.1609
General Heavy Industry	215.595	2.3250	21.1367	17.7548	0.1268		1.6064	1.6064		1.6064	1.6064		25,364.0599	25,364.0599	0.4861	0.4650	25,514.7859
General Office Building	63.8284	0.6884	6.2577	5.2565	0.0376		0.4756	0.4756		0.4756	0.4756		7,509.2291	7,509.2291	0.1439	0.1377	7,553.8527
General Office Building	7.13253	0.0769	0.6993	0.5874	4.2000e-003		0.0531	0.0531		0.0531	0.0531		839.1212	839.1212	0.0161	0.0154	844.1077
Government (Civic Center)	3.15525	0.0340	0.3093	0.2598	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.2062	371.2062	7.1100e-003	6.8100e-003	373.4121
Government Office Building	0.739264	7.9700e-003	0.0725	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9722	86.9722	1.6700e-003	1.5900e-003	87.4890
Government Office Building	4.73194	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.6992	556.6992	0.0107	0.0102	560.0074
Library	74.3509	0.8018	7.2893	6.1230	0.0437		0.5540	0.5540		0.5540	0.5540		8,747.1590	8,747.1590	0.1677	0.1604	8,799.1389
Office Park	31.3293	0.3379	3.0715	2.5801	0.0184		0.2334	0.2334		0.2334	0.2334		3,685.8021	3,685.8021	0.0706	0.0676	3,707.7050
Single Family Housing	16.6622	0.1797	1.5355	0.6534	9.8000e-003		0.1242	0.1242		0.1242	0.1242		1,960.2553	1,960.2553	0.0376	0.0359	1,971.9041
Single Family Housing	206.843	2.2307	19.0620	8.1115	0.1217		1.5412	1.5412		1.5412	1.5412		24,334.5183	24,334.5183	0.4664	0.4461	24,479.1261
Single Family Housing	317.589	3.4250	29.2680	12.4545	0.1868		2.3664	2.3664		2.3664	2.3664		37,363.3780	37,363.3780	0.7161	0.6850	37,585.4098
Single Family Housing	370.83	3.9992	34.1745	14.5424	0.2181		2.7631	2.7631		2.7631	2.7631		43,627.0775	43,627.0775	0.8362	0.7998	43,886.3314
Single Family Housing	4.33991	0.0468	0.4000	0.1702	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.5781	510.5781	9.7900e-003	9.3600e-003	513.6122
Single Family Housing	467.548	5.0422	43.0878	18.3352	0.2750		3.4837	3.4837		3.4837	3.4837		55,005.6758	55,005.6758	1.0543	1.0084	55,332.5470
Strip Mall	0.474163	5.1100e-003	0.0465	0.0391	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003		55.7839	55.7839	1.0700e-003	1.0200e-003	56.1154
Strip Mall	4.5748	0.0493	0.4485	0.3768	2.6900e-003		0.0341	0.0341		0.0341	0.0341		538.2118	538.2118	0.0103	9.8700e-003	541.4102
Total		26.7785	231.2223	114.8863	1.4607		18.5015	18.5015		18.5015	18.5015		292,129.3013	292,129.3013	5.5991	5.3557	293,865.2797

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1,209.863 7	30.4338	2,637.020 8	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.772 2	4,769.772 2	4.5459	0.0000	4,883.420 4
Unmitigated	1,209.863 7	30.4338	2,637.020 8	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.772 2	4,769.772 2	4.5459	0.0000	4,883.420 4

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	102.6736					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1,028.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	78.9745	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848		4,769.7722	4,769.7722	4.5459		4,883.4204
Total	1,209.8637	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.7722	4,769.7722	4.5459	0.0000	4,883.4204

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	102.6736					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1,028.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	78.9745	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848		4,769.7722	4,769.7722	4.5459		4,883.4204
Total	1,209.8637	30.4338	2,637.0208	0.1399		14.6848	14.6848		14.6848	14.6848	0.0000	4,769.7722	4,769.7722	4.5459	0.0000	4,883.4204

7.0 Water Detail

7.1 Mitigation Measures Water

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation



Appendix B:

CalEEMod Annual Emission Output

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

San Jacinto General Plan Buildout Year (2040)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6,792.24	1000sqft	155.93	6,792,240.00	0
General Office Building	759.00	1000sqft	17.42	759,001.00	0
Government (Civic Center)	335.76	1000sqft	7.71	335,763.00	0
Government Office Building	78.67	1000sqft	1.81	78,668.00	0
Government Office Building	503.55	1000sqft	11.56	503,545.00	0
Office Park	3,956.82	1000sqft	90.84	3,956,817.00	0
Library	839.41	1000sqft	19.27	839,408.00	0
General Heavy Industry	2,434.02	1000sqft	55.88	2,434,024.00	0
City Park	4.54	Acre	4.54	197,762.40	0
City Park	0.09	Acre	0.09	3,833.28	0
Apartments Low Rise	1,025.00	Dwelling Unit	64.06	203,279.00	3426
Apartments Low Rise	91.00	Dwelling Unit	5.69	118,002.00	302
Apartments Mid Rise	223.00	Dwelling Unit	5.87	74,861.00	744
Apartments Mid Rise	5,750.00	Dwelling Unit	151.32	1,138,501.00	19205
Condo/Townhouse	1,025.00	Dwelling Unit	64.06	203,279.00	3426
Condo/Townhouse	223.00	Dwelling Unit	13.94	74,861.00	744
Condo/Townhouse	5,750.00	Dwelling Unit	359.38	1,138,501.00	19205
Condo/Townhouse	91.00	Dwelling Unit	5.69	118,002.00	302
Congregate Care (Assisted Living)	50.00	Dwelling Unit	3.13	16,636.00	165
Single Family Housing	215.00	Dwelling Unit	69.81	200,829.00	718
Single Family Housing	6,033.00	Dwelling Unit	1,958.77	10,859,400.00	20149
Single Family Housing	4,098.00	Dwelling Unit	1,330.52	7,376,400.00	13686
Single Family Housing	4,785.00	Dwelling Unit	1,553.57	8,613,000.00	15981
Single Family Housing	56.00	Dwelling Unit	18.18	98,984.00	186
Single Family Housing	2,669.00	Dwelling Unit	866.56	5,157,888.00	8916
Strip Mall	759.00	1000sqft	17.42	759,001.00	0
Strip Mall	78.67	1000sqft	1.81	78,668.00	0

1.2 Other Project Characteristics

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2040
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 - Values as provided by the City of Lake Forest. Land uses types were selected based on best proxy for the land use designations provided. Unit amounts, lot acreages, and population provided by the City.

Construction Phase - Construction schedule assumes buildout by 12/31/2040.

Off-road Equipment -

Grading - Assumes grading occurs over entire Planning Area (6,855 acres).

Woodstoves - No hearths or fireplaces (not permitted in SCAQMD's jurisdiction).

Trips and VMT - For 'Building Construction' & 'Architectural Coating' phases: for res. uses, assumes 24 worker & 8 vendor trips per housing unit/day. For nonres. uses, assumes 8 worker trips & 3 vendor trips per 1000 sf/day. = 199 daily worker 68 daily vendor trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	262.00
tblConstructionPhase	NumDays	15,500.00	261.00
tblConstructionPhase	NumDays	155,000.00	3,543.00
tblConstructionPhase	NumDays	11,000.00	261.00
tblConstructionPhase	NumDays	11,000.00	674.00
tblConstructionPhase	PhaseEndDate	10/28/2044	11/1/2022
tblConstructionPhase	PhaseEndDate	3/28/2104	11/1/2023
tblConstructionPhase	PhaseEndDate	5/13/2698	6/1/2037
tblConstructionPhase	PhaseEndDate	7/12/2740	6/1/2038
tblConstructionPhase	PhaseEndDate	9/10/2782	12/31/2040
tblConstructionPhase	PhaseStartDate	10/29/2044	11/2/2022

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

tblConstructionPhase	PhaseStartDate	3/29/2104	11/2/2023
tblConstructionPhase	PhaseStartDate	5/14/2698	6/2/2037
tblConstructionPhase	PhaseStartDate	7/13/2740	6/2/2038
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	948.60	0.00
tblFireplaces	NumberGas	5,077.05	0.00
tblFireplaces	NumberGas	6,025.65	0.00
tblFireplaces	NumberGas	42.50	0.00
tblFireplaces	NumberGas	15,177.60	0.00
tblFireplaces	NumberNoFireplace	111.60	0.00
tblFireplaces	NumberNoFireplace	597.30	0.00
tblFireplaces	NumberNoFireplace	708.90	0.00
tblFireplaces	NumberNoFireplace	5.00	0.00
tblFireplaces	NumberNoFireplace	1,785.60	0.00
tblFireplaces	NumberWood	55.80	0.00
tblFireplaces	NumberWood	298.65	0.00
tblFireplaces	NumberWood	354.45	0.00
tblFireplaces	NumberWood	2.50	0.00
tblFireplaces	NumberWood	892.80	0.00
tblGrading	AcresOfGrading	783.00	6,855.00
tblGrading	AcresOfGrading	393.00	0.00
tblLandUse	LandUseSquareFeet	3,956,820.00	3,956,817.00
tblLandUse	LandUseSquareFeet	2,434,020.00	2,434,024.00
tblLandUse	LandUseSquareFeet	1,025,000.00	203,279.00
tblLandUse	LandUseSquareFeet	91,000.00	118,002.00

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

tblLandUse	LandUseSquareFeet	223,000.00	74,861.00
tblLandUse	LandUseSquareFeet	5,750,000.00	1,138,501.00
tblLandUse	LandUseSquareFeet	1,025,000.00	203,279.00
tblLandUse	LandUseSquareFeet	223,000.00	74,861.00
tblLandUse	LandUseSquareFeet	5,750,000.00	1,138,501.00
tblLandUse	LandUseSquareFeet	91,000.00	118,002.00
tblLandUse	LandUseSquareFeet	50,000.00	16,636.00
tblLandUse	LandUseSquareFeet	387,000.00	200,829.00
tblLandUse	LandUseSquareFeet	4,804,200.00	5,157,888.00
tblLandUse	LandUseSquareFeet	100,800.00	98,984.00
tblLandUse	Population	2,932.00	3,426.00
tblLandUse	Population	260.00	302.00
tblLandUse	Population	638.00	744.00
tblLandUse	Population	16,445.00	19,205.00
tblLandUse	Population	2,932.00	3,426.00
tblLandUse	Population	638.00	744.00
tblLandUse	Population	16,445.00	19,205.00
tblLandUse	Population	260.00	302.00
tblLandUse	Population	143.00	165.00
tblLandUse	Population	615.00	718.00
tblLandUse	Population	7,633.00	8,916.00
tblLandUse	Population	11,720.00	13,686.00
tblLandUse	Population	13,685.00	15,981.00
tblLandUse	Population	160.00	186.00
tblLandUse	Population	17,254.00	20,149.00
tblTripsAndVMT	VendorTripNumber	6,173.00	86.00
tblTripsAndVMT	VendorTripNumber	0.00	86.00
tblTripsAndVMT	WorkerTripNumber	22,376.00	254.00
tblTripsAndVMT	WorkerTripNumber	4,475.00	254.00

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

tblWoodstoves	NumberCatalytic	55.80	0.00
tblWoodstoves	NumberCatalytic	298.65	0.00
tblWoodstoves	NumberCatalytic	354.45	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberCatalytic	892.80	0.00
tblWoodstoves	NumberNoncatalytic	55.80	0.00
tblWoodstoves	NumberNoncatalytic	298.65	0.00
tblWoodstoves	NumberNoncatalytic	354.45	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	892.80	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0890	0.9124	0.4910	8.9000e-004	0.4109	0.0460	0.4570	0.2246	0.0423	0.2670	0.0000	78.8396	78.8396	0.0244	1.1000e-004	79.4821
2022	0.4302	4.4312	2.8427	5.6900e-003	5.7507	0.2103	5.9610	1.5481	0.1934	1.7415	0.0000	500.6447	500.6447	0.1558	5.7000e-004	504.7110
2023	0.4214	4.1443	3.6586	8.3300e-003	4.3853	0.1709	4.5561	0.7785	0.1575	0.9361	0.0000	736.3048	736.3048	0.2057	6.1600e-003	743.2834

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.3055	2.2186	3.2443	8.4100e-003	0.4369	0.0852	0.5221	0.1177	0.0802	0.1978	0.0000	759.6689	759.6689	0.0801	0.0344	771.9262
2025	0.2841	2.0725	3.1524	8.2400e-003	0.4352	0.0736	0.5088	0.1172	0.0693	0.1864	0.0000	744.4862	744.4862	0.0789	0.0333	756.3764
2026	0.2784	2.0625	3.0945	8.1200e-003	0.4352	0.0735	0.5087	0.1172	0.0692	0.1864	0.0000	733.0967	733.0967	0.0784	0.0324	744.7016
2027	0.2731	2.0536	3.0448	8.0000e-003	0.4352	0.0734	0.5086	0.1172	0.0691	0.1863	0.0000	722.3867	722.3867	0.0780	0.0315	733.7211
2028	0.2674	2.0384	2.9920	7.8700e-003	0.4336	0.0730	0.5066	0.1168	0.0687	0.1854	0.0000	709.9232	709.9232	0.0774	0.0306	720.9674
2029	0.2639	2.0397	2.9675	7.8000e-003	0.4352	0.0732	0.5084	0.1172	0.0689	0.1861	0.0000	703.8510	703.8510	0.0774	0.0300	714.7130
2030	0.2522	1.4421	2.9462	8.2400e-003	0.4352	0.0236	0.4588	0.1172	0.0233	0.1405	0.0000	736.2745	736.2745	0.0198	0.0293	745.4980
2031	0.2482	1.4394	2.9265	8.1700e-003	0.4352	0.0234	0.4586	0.1172	0.0232	0.1404	0.0000	729.4471	729.4471	0.0196	0.0287	738.4842
2032	0.2455	1.4405	2.9143	8.1300e-003	0.4369	0.0234	0.4603	0.1177	0.0232	0.1408	0.0000	725.9595	725.9595	0.0195	0.0283	734.8729
2033	0.2404	1.4257	2.8722	8.0100e-003	0.4336	0.0232	0.4567	0.1168	0.0230	0.1397	0.0000	714.9251	714.9251	0.0192	0.0276	723.6344
2034	0.2375	1.4223	2.8544	7.9600e-003	0.4336	0.0231	0.4566	0.1168	0.0229	0.1396	0.0000	710.0319	710.0319	0.0191	0.0272	718.6201
2035	0.2238	1.3238	2.8451	7.9400e-003	0.4352	0.0156	0.4508	0.1172	0.0154	0.1326	0.0000	708.4424	708.4424	0.0181	0.0270	716.9337
2036	0.2247	1.3289	2.8560	7.9700e-003	0.4369	0.0156	0.4525	0.1177	0.0154	0.1331	0.0000	711.1567	711.1567	0.0181	0.0271	719.6805
2037	0.1817	0.9219	2.4081	5.5100e-003	0.1927	0.0208	0.2135	0.0518	0.0207	0.0726	0.0000	484.7809	484.7809	0.0147	0.0113	488.5199
2038	42.6457	0.5502	1.4409	4.0800e-003	0.2640	0.0131	0.2771	0.0711	0.0130	0.0841	0.0000	369.0074	369.0074	8.9000e-003	0.0159	373.9749
2039	72.3629	0.4863	0.9721	4.2700e-003	0.4336	5.0500e-003	0.4386	0.1168	4.8500e-003	0.1216	0.0000	397.2010	397.2010	6.5000e-003	0.0269	405.3722
2040	72.6314	0.4755	0.9249	4.1300e-003	0.4352	4.5400e-003	0.4398	0.1172	4.3600e-003	0.1216	0.0000	384.2740	384.2740	6.0300e-003	0.0259	392.1287
Maximum	72.6314	4.4312	3.6586	8.4100e-003	5.7507	0.2103	5.9610	1.5481	0.1934	1.7415	0.0000	759.6689	759.6689	0.2057	0.0344	771.9262

San Jacinto General Plan Buildout Year (2040) - 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

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					
2021	0.0890	0.9124	0.4910	8.9000e-004	0.4109	0.0460	0.4570	0.2246	0.0423	0.2670	0.0000	78.8395	78.8395	0.0244	1.1000e-004	79.4820
2022	0.4302	4.4312	2.8427	5.6900e-003	5.7507	0.2103	5.9610	1.5481	0.1934	1.7415	0.0000	500.6442	500.6442	0.1558	5.7000e-004	504.7104
2023	0.4214	4.1443	3.6586	8.3300e-003	4.3853	0.1709	4.5561	0.7785	0.1575	0.9361	0.0000	736.3040	736.3040	0.2057	6.1600e-003	743.2826
2024	0.3055	2.2186	3.2443	8.4100e-003	0.4369	0.0852	0.5221	0.1177	0.0802	0.1978	0.0000	759.6685	759.6685	0.0801	0.0344	771.9258
2025	0.2841	2.0725	3.1524	8.2400e-003	0.4352	0.0736	0.5088	0.1172	0.0693	0.1864	0.0000	744.4858	744.4858	0.0789	0.0333	756.3761
2026	0.2784	2.0625	3.0945	8.1200e-003	0.4352	0.0735	0.5087	0.1172	0.0692	0.1864	0.0000	733.0963	733.0963	0.0784	0.0324	744.7012
2027	0.2731	2.0536	3.0448	8.0000e-003	0.4352	0.0734	0.5086	0.1172	0.0691	0.1863	0.0000	722.3864	722.3864	0.0780	0.0315	733.7207
2028	0.2674	2.0384	2.9919	7.8700e-003	0.4336	0.0730	0.5066	0.1168	0.0687	0.1854	0.0000	709.9228	709.9228	0.0774	0.0306	720.9671
2029	0.2639	2.0397	2.9674	7.8000e-003	0.4352	0.0732	0.5084	0.1172	0.0689	0.1861	0.0000	703.8506	703.8506	0.0774	0.0300	714.7126
2030	0.2522	1.4421	2.9462	8.2400e-003	0.4352	0.0236	0.4588	0.1172	0.0233	0.1405	0.0000	736.2741	736.2741	0.0198	0.0293	745.4976
2031	0.2482	1.4394	2.9265	8.1700e-003	0.4352	0.0234	0.4586	0.1172	0.0232	0.1404	0.0000	729.4467	729.4467	0.0196	0.0287	738.4838
2032	0.2455	1.4405	2.9143	8.1300e-003	0.4369	0.0234	0.4603	0.1177	0.0232	0.1408	0.0000	725.9591	725.9591	0.0195	0.0283	734.8725
2033	0.2404	1.4257	2.8722	8.0100e-003	0.4336	0.0232	0.4567	0.1168	0.0230	0.1397	0.0000	714.9247	714.9247	0.0192	0.0276	723.6340
2034	0.2375	1.4223	2.8544	7.9600e-003	0.4336	0.0231	0.4566	0.1168	0.0229	0.1396	0.0000	710.0315	710.0315	0.0191	0.0272	718.6197
2035	0.2238	1.3238	2.8451	7.9400e-003	0.4352	0.0156	0.4508	0.1172	0.0154	0.1326	0.0000	708.4420	708.4420	0.0181	0.0270	716.9332
2036	0.2247	1.3289	2.8560	7.9700e-003	0.4369	0.0156	0.4525	0.1177	0.0154	0.1331	0.0000	711.1563	711.1563	0.0181	0.0271	719.6801

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2037	0.1817	0.9219	2.4081	5.5100e-003	0.1927	0.0208	0.2135	0.0518	0.0207	0.0726	0.0000	484.7806	484.7806	0.0147	0.0113	488.5195
2038	42.6457	0.5502	1.4409	4.0800e-003	0.2640	0.0131	0.2771	0.0711	0.0130	0.0841	0.0000	369.0072	369.0072	8.9000e-003	0.0159	373.9747
2039	72.3629	0.4863	0.9721	4.2700e-003	0.4336	5.0500e-003	0.4386	0.1168	4.8500e-003	0.1216	0.0000	397.2010	397.2010	6.5000e-003	0.0269	405.3722
2040	72.6314	0.4755	0.9249	4.1300e-003	0.4352	4.5400e-003	0.4398	0.1172	4.3600e-003	0.1216	0.0000	384.2739	384.2739	6.0300e-003	0.0259	392.1287
Maximum	72.6314	4.4312	3.6586	8.4100e-003	5.7507	0.2103	5.9610	1.5481	0.1934	1.7415	0.0000	759.6685	759.6685	0.2057	0.0344	771.9258

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2021	1-31-2022	1.3723	1.3723
2	2-1-2022	4-30-2022	1.1560	1.1560
3	5-1-2022	7-31-2022	1.1950	1.1950
4	8-1-2022	10-31-2022	1.1950	1.1950
5	11-1-2022	1-31-2023	1.3459	1.3459
6	2-1-2023	4-30-2023	1.2064	1.2064
7	5-1-2023	7-31-2023	1.2471	1.2471
8	8-1-2023	10-31-2023	1.2471	1.2471
9	11-1-2023	1-31-2024	0.6666	0.6666
10	2-1-2024	4-30-2024	0.6198	0.6198
11	5-1-2024	7-31-2024	0.6307	0.6307
12	8-1-2024	10-31-2024	0.6321	0.6321

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

13	11-1-2024	1-31-2025	0.6216	0.6216
14	2-1-2025	4-30-2025	0.5744	0.5744
15	5-1-2025	7-31-2025	0.5909	0.5909
16	8-1-2025	10-31-2025	0.5923	0.5923
17	11-1-2025	1-31-2026	0.5939	0.5939
18	2-1-2026	4-30-2026	0.5706	0.5706
19	5-1-2026	7-31-2026	0.5869	0.5869
20	8-1-2026	10-31-2026	0.5884	0.5884
21	11-1-2026	1-31-2027	0.5901	0.5901
22	2-1-2027	4-30-2027	0.5671	0.5671
23	5-1-2027	7-31-2027	0.5832	0.5832
24	8-1-2027	10-31-2027	0.5847	0.5847
25	11-1-2027	1-31-2028	0.5867	0.5867
26	2-1-2028	4-30-2028	0.5705	0.5705
27	5-1-2028	7-31-2028	0.5801	0.5801
28	8-1-2028	10-31-2028	0.5817	0.5817
29	11-1-2028	1-31-2029	0.5837	0.5837
30	2-1-2029	4-30-2029	0.5614	0.5614
31	5-1-2029	7-31-2029	0.5773	0.5773
32	8-1-2029	10-31-2029	0.5788	0.5788
33	11-1-2029	1-31-2030	0.5301	0.5301
34	2-1-2030	4-30-2030	0.4129	0.4129
35	5-1-2030	7-31-2030	0.4238	0.4238
36	8-1-2030	10-31-2030	0.4254	0.4254
37	11-1-2030	1-31-2031	0.4278	0.4278
38	2-1-2031	4-30-2031	0.4113	0.4113
39	5-1-2031	7-31-2031	0.4221	0.4221
40	8-1-2031	10-31-2031	0.4236	0.4236
41	11-1-2031	1-31-2032	0.4260	0.4260

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

42	2-1-2032	4-30-2032	0.4139	0.4139
43	5-1-2032	7-31-2032	0.4200	0.4200
44	8-1-2032	10-31-2032	0.4216	0.4216
45	11-1-2032	1-31-2033	0.4241	0.4241
46	2-1-2033	4-30-2033	0.4076	0.4076
47	5-1-2033	7-31-2033	0.4181	0.4181
48	8-1-2033	10-31-2033	0.4197	0.4197
49	11-1-2033	1-31-2034	0.4224	0.4224
50	2-1-2034	4-30-2034	0.4060	0.4060
51	5-1-2034	7-31-2034	0.4165	0.4165
52	8-1-2034	10-31-2034	0.4181	0.4181
53	11-1-2034	1-31-2035	0.4112	0.4112
54	2-1-2035	4-30-2035	0.3771	0.3771
55	5-1-2035	7-31-2035	0.3866	0.3866
56	8-1-2035	10-31-2035	0.3882	0.3882
57	11-1-2035	1-31-2036	0.3914	0.3914
58	2-1-2036	4-30-2036	0.3813	0.3813
59	5-1-2036	7-31-2036	0.3866	0.3866
60	8-1-2036	10-31-2036	0.3882	0.3882
61	11-1-2036	1-31-2037	0.3914	0.3914
62	2-1-2037	4-30-2037	0.3771	0.3771
63	5-1-2037	7-31-2037	0.2643	0.2643
64	8-1-2037	10-31-2037	0.1990	0.1990
65	11-1-2037	1-31-2038	0.1990	0.1990
66	2-1-2038	4-30-2038	0.1925	0.1925
67	5-1-2038	7-31-2038	12.0753	12.0753
68	8-1-2038	10-31-2038	18.4110	18.4110
69	11-1-2038	1-31-2039	18.4142	18.4142
70	2-1-2039	4-30-2039	17.8121	17.8121

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

71	5-1-2039	7-31-2039	18.4093	18.4093
72	8-1-2039	10-31-2039	18.4110	18.4110
73	11-1-2039	1-31-2040	18.4123	18.4123
74	2-1-2040	4-30-2040	18.0067	18.0067
75	5-1-2040	7-31-2040	18.4034	18.4034
76	8-1-2040	9-30-2040	12.2023	12.2023
		Highest	18.4142	18.4142

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	216.2591	3.8042	329.6276	0.0175		1.8356	1.8356		1.8356	1.8356	0.0000	540.8831	540.8831	0.5155	0.0000	525.7706
Energy	4.8871	42.1981	20.9668	0.2666		3.3765	3.3765		3.3765	3.3765	0.0000	112,983.0673	112,983.0673	6.3810	1.5478	113,603.8302
Mobile	143.4512	191.3236	1,557.7093	3.8682	556.7315	2.1634	558.8949	148.5644	2.0325	150.5969	0.0000	357,713.7130	357,713.7130	17.3944	17.0054	363,216.1851
Waste						0.0000	0.0000		0.0000	0.0000	9,915.5402	0.0000	9,915.5402	585.9916	0.0000	24,565.3311
Water						0.0000	0.0000		0.0000	0.0000	1,576.5346	16,928.7913	18,505.3259	163.3541	3.9966	23,780.1641
Total	364.5974	237.3259	1,908.3036	4.1522	556.7315	7.3755	564.1070	148.5644	7.2446	155.8090	11,492.0748	488,166.4546	499,658.5294	773.6365	22.5498	525,719.2810

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

2.2 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	216.2591	3.8042	329.6276	0.0175		1.8356	1.8356		1.8356	1.8356	0.0000	540.8831	540.8831	0.5155	0.0000	553.7706
Energy	4.8871	42.1981	20.9668	0.2666		3.3765	3.3765		3.3765	3.3765	0.0000	112,983.0673	112,983.0673	6.3810	1.5478	113,603.8302
Mobile	143.4512	191.3236	1,557.7093	3.8682	556.7315	2.1634	558.8949	148.5644	2.0325	150.5969	0.0000	357,713.7130	357,713.7130	17.3944	17.0054	363,216.1851
Waste						0.0000	0.0000		0.0000	0.0000	9,915.5402	0.0000	9,915.5402	585.9916	0.0000	24,565.3311
Water						0.0000	0.0000		0.0000	0.0000	1,576.5346	16,928.7913	18,505.3259	163.3541	3.9966	23,780.1641
Total	364.5974	237.3259	1,908.3036	4.1522	556.7315	7.3755	564.1070	148.5644	7.2446	155.8090	11,492.0748	488,166.4546	499,658.5294	773.6365	22.5498	525,719.2810

	ROG	NOx	CO	SO2	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	11/1/2021	11/1/2022	5	262	
2	Grading	Grading	11/2/2022	11/1/2023	5	261	
3	Building Construction	Building Construction	11/2/2023	6/1/2037	5	3543	

San Jacinto General Plan Buildout Year (2040) - 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	Paving	Paving	6/2/2037	6/1/2038	5	261
5	Architectural Coating	Architectural Coating	6/2/2038	12/31/2040	5	674

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6855

Acres of Paving: 0

Residential Indoor: 71,669,657; Residential Outdoor: 23,889,886; Non-Residential Indoor: 24,805,703; Non-Residential Outdoor: 8,268,568; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	254.00	86.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	254.00	86.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.4065	0.0000	0.4065	0.2234	0.0000	0.2234	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0875	0.9112	0.4760	8.6000e-004		0.0460	0.0460		0.0423	0.0423	0.0000	75.2304	75.2304	0.0243	0.0000	75.8386
Total	0.0875	0.9112	0.4760	8.6000e-004	0.4065	0.0460	0.4525	0.2234	0.0423	0.2658	0.0000	75.2304	75.2304	0.0243	0.0000	75.8386

San Jacinto General Plan Buildout Year (2040) - 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 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5300e-003	1.2500e-003	0.0151	4.0000e-005	4.4500e-003	2.0000e-005	4.4800e-003	1.1800e-003	2.0000e-005	1.2000e-003	0.0000	3.6092	3.6092	1.0000e-004	1.1000e-004	3.6434
Total	1.5300e-003	1.2500e-003	0.0151	4.0000e-005	4.4500e-003	2.0000e-005	4.4800e-003	1.1800e-003	2.0000e-005	1.2000e-003	0.0000	3.6092	3.6092	1.0000e-004	1.1000e-004	3.6434

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.4065	0.0000	0.4065	0.2234	0.0000	0.2234	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0875	0.9112	0.4760	8.6000e-004		0.0460	0.0460		0.0423	0.0423	0.0000	75.2303	75.2303	0.0243	0.0000	75.8386
Total	0.0875	0.9112	0.4760	8.6000e-004	0.4065	0.0460	0.4525	0.2234	0.0423	0.2658	0.0000	75.2303	75.2303	0.0243	0.0000	75.8386

San Jacinto General Plan Buildout Year (2040) - 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 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5300e-003	1.2500e-003	0.0151	4.0000e-005	4.4500e-003	2.0000e-005	4.4800e-003	1.1800e-003	2.0000e-005	1.2000e-003	0.0000	3.6092	3.6092	1.0000e-004	1.1000e-004	3.6434
Total	1.5300e-003	1.2500e-003	0.0151	4.0000e-005	4.4500e-003	2.0000e-005	4.4800e-003	1.1800e-003	2.0000e-005	1.2000e-003	0.0000	3.6092	3.6092	1.0000e-004	1.1000e-004	3.6434

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					1.9602	0.0000	1.9602	1.0775	0.0000	1.0775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3440	3.5896	2.1372	4.1300e-003		0.1750	0.1750		0.1610	0.1610	0.0000	362.8174	362.8174	0.1173	0.0000	365.7510
Total	0.3440	3.5896	2.1372	4.1300e-003	1.9602	0.1750	2.1352	1.0775	0.1610	1.2385	0.0000	362.8174	362.8174	0.1173	0.0000	365.7510

San Jacinto General Plan Buildout Year (2040) - 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 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8200e-003	5.3100e-003	0.0664	1.8000e-004	0.0215	1.1000e-004	0.0216	5.7000e-003	1.0000e-004	5.8000e-003	0.0000	16.8648	16.8648	4.5000e-004	4.7000e-004	17.0161
Total	6.8200e-003	5.3100e-003	0.0664	1.8000e-004	0.0215	1.1000e-004	0.0216	5.7000e-003	1.0000e-004	5.8000e-003	0.0000	16.8648	16.8648	4.5000e-004	4.7000e-004	17.0161

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9602	0.0000	1.9602	1.0775	0.0000	1.0775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3440	3.5896	2.1372	4.1300e-003		0.1750	0.1750		0.1610	0.1610	0.0000	362.8170	362.8170	0.1173	0.0000	365.7505
Total	0.3440	3.5896	2.1372	4.1300e-003	1.9602	0.1750	2.1352	1.0775	0.1610	1.2385	0.0000	362.8170	362.8170	0.1173	0.0000	365.7505

San Jacinto General Plan Buildout Year (2040) - 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 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8200e-003	5.3100e-003	0.0664	1.8000e-004	0.0215	1.1000e-004	0.0216	5.7000e-003	1.0000e-004	5.8000e-003	0.0000	16.8648	16.8648	4.5000e-004	4.7000e-004	17.0161
Total	6.8200e-003	5.3100e-003	0.0664	1.8000e-004	0.0215	1.1000e-004	0.0216	5.7000e-003	1.0000e-004	5.8000e-003	0.0000	16.8648	16.8648	4.5000e-004	4.7000e-004	17.0161

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					3.7643	0.0000	3.7643	0.4637	0.0000	0.4637	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8351	0.6244	1.3300e-003		0.0352	0.0352		0.0323	0.0323	0.0000	117.2494	117.2494	0.0379	0.0000	118.1974
Total	0.0779	0.8351	0.6244	1.3300e-003	3.7643	0.0352	3.7995	0.4637	0.0323	0.4960	0.0000	117.2494	117.2494	0.0379	0.0000	118.1974

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-003	1.1700e-003	0.0146	4.0000e-005	4.7300e-003	2.0000e-005	4.7500e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7132	3.7132	1.0000e-004	1.0000e-004	3.7465
Total	1.5000e-003	1.1700e-003	0.0146	4.0000e-005	4.7300e-003	2.0000e-005	4.7500e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7132	3.7132	1.0000e-004	1.0000e-004	3.7465

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.7643	0.0000	3.7643	0.4637	0.0000	0.4637	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0779	0.8351	0.6244	1.3300e-003		0.0352	0.0352		0.0323	0.0323	0.0000	117.2493	117.2493	0.0379	0.0000	118.1973
Total	0.0779	0.8351	0.6244	1.3300e-003	3.7643	0.0352	3.7995	0.4637	0.0323	0.4960	0.0000	117.2493	117.2493	0.0379	0.0000	118.1973

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-003	1.1700e-003	0.0146	4.0000e-005	4.7300e-003	2.0000e-005	4.7500e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7132	3.7132	1.0000e-004	1.0000e-004	3.7465
Total	1.5000e-003	1.1700e-003	0.0146	4.0000e-005	4.7300e-003	2.0000e-005	4.7500e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.7132	3.7132	1.0000e-004	1.0000e-004	3.7465

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					4.2913	0.0000	4.2913	0.7533	0.0000	0.7533	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3621	3.7622	3.0576	6.7700e-003		0.1553	0.1553		0.1429	0.1429	0.0000	594.4338	594.4338	0.1923	0.0000	599.2401
Total	0.3621	3.7622	3.0576	6.7700e-003	4.2913	0.1553	4.4465	0.7533	0.1429	0.8961	0.0000	594.4338	594.4338	0.1923	0.0000	599.2401

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0700e-003	5.2400e-003	0.0683	2.0000e-004	0.0240	1.1000e-004	0.0241	6.3600e-003	1.0000e-004	6.4700e-003	0.0000	18.2216	18.2216	4.5000e-004	4.8000e-004	18.3772
Total	7.0700e-003	5.2400e-003	0.0683	2.0000e-004	0.0240	1.1000e-004	0.0241	6.3600e-003	1.0000e-004	6.4700e-003	0.0000	18.2216	18.2216	4.5000e-004	4.8000e-004	18.3772

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.2913	0.0000	4.2913	0.7533	0.0000	0.7533	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3621	3.7622	3.0576	6.7700e-003		0.1553	0.1553		0.1429	0.1429	0.0000	594.4331	594.4331	0.1923	0.0000	599.2394
Total	0.3621	3.7622	3.0576	6.7700e-003	4.2913	0.1553	4.4465	0.7533	0.1429	0.8961	0.0000	594.4331	594.4331	0.1923	0.0000	599.2394

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0700e-003	5.2400e-003	0.0683	2.0000e-004	0.0240	1.1000e-004	0.0241	6.3600e-003	1.0000e-004	6.4700e-003	0.0000	18.2216	18.2216	4.5000e-004	4.8000e-004	18.3772
Total	7.0700e-003	5.2400e-003	0.0683	2.0000e-004	0.0240	1.1000e-004	0.0241	6.3600e-003	1.0000e-004	6.4700e-003	0.0000	18.2216	18.2216	4.5000e-004	4.8000e-004	18.3772

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	0.0330	0.3021	0.3411	5.7000e-004		0.0147	0.0147		0.0138	0.0138	0.0000	48.6790	48.6790	0.0116	0.0000	48.9685
Total	0.0330	0.3021	0.3411	5.7000e-004		0.0147	0.0147		0.0138	0.0138	0.0000	48.6790	48.6790	0.0116	0.0000	48.9685

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 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	1.9600e-003	0.0619	0.0247	3.2000e-004	0.0114	5.1000e-004	0.0119	3.2900e-003	4.9000e-004	3.7800e-003	0.0000	30.3860	30.3860	3.1000e-004	4.4900e-003	31.7327
Worker	0.0173	0.0128	0.1670	4.9000e-004	0.0586	2.8000e-004	0.0589	0.0156	2.6000e-004	0.0158	0.0000	44.5844	44.5844	1.1100e-003	1.1800e-003	44.9650
Total	0.0193	0.0747	0.1917	8.1000e-004	0.0700	7.9000e-004	0.0708	0.0189	7.5000e-004	0.0196	0.0000	74.9704	74.9704	1.4200e-003	5.6700e-003	76.6977

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0330	0.3021	0.3411	5.7000e-004		0.0147	0.0147		0.0138	0.0138	0.0000	48.6789	48.6789	0.0116	0.0000	48.9684
Total	0.0330	0.3021	0.3411	5.7000e-004		0.0147	0.0147		0.0138	0.0138	0.0000	48.6789	48.6789	0.0116	0.0000	48.9684

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 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	1.9600e-003	0.0619	0.0247	3.2000e-004	0.0114	5.1000e-004	0.0119	3.2900e-003	4.9000e-004	3.7800e-003	0.0000	30.3860	30.3860	3.1000e-004	4.4900e-003	31.7327
Worker	0.0173	0.0128	0.1670	4.9000e-004	0.0586	2.8000e-004	0.0589	0.0156	2.6000e-004	0.0158	0.0000	44.5844	44.5844	1.1100e-003	1.1800e-003	44.9650
Total	0.0193	0.0747	0.1917	8.1000e-004	0.0700	7.9000e-004	0.0708	0.0189	7.5000e-004	0.0196	0.0000	74.9704	74.9704	1.4200e-003	5.6700e-003	76.6977

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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0120	0.3863	0.1521	1.9400e-003	0.0712	3.1900e-003	0.0744	0.0205	3.0500e-003	0.0236	0.0000	186.6310	186.6310	1.9800e-003	0.0276	194.8916
Worker	0.1008	0.0712	0.9743	2.9400e-003	0.3657	1.6600e-003	0.3674	0.0971	1.5300e-003	0.0986	0.0000	269.3155	269.3155	6.3000e-003	6.8600e-003	271.5167
Total	0.1128	0.4575	1.1264	4.8800e-003	0.4369	4.8500e-003	0.4417	0.1176	4.5800e-003	0.1222	0.0000	455.9465	455.9465	8.2800e-003	0.0344	466.4083

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0120	0.3863	0.1521	1.9400e-003	0.0712	3.1900e-003	0.0744	0.0205	3.0500e-003	0.0236	0.0000	186.6310	186.6310	1.9800e-003	0.0276	194.8916
Worker	0.1008	0.0712	0.9743	2.9400e-003	0.3657	1.6600e-003	0.3674	0.0971	1.5300e-003	0.0986	0.0000	269.3155	269.3155	6.3000e-003	6.8600e-003	271.5167
Total	0.1128	0.4575	1.1264	4.8800e-003	0.4369	4.8500e-003	0.4417	0.1176	4.5800e-003	0.1222	0.0000	455.9465	455.9465	8.2800e-003	0.0344	466.4083

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0118	0.3816	0.1499	1.9000e-003	0.0709	3.1800e-003	0.0741	0.0205	3.0400e-003	0.0235	0.0000	182.6425	182.6425	2.0500e-003	0.0269	190.7130
Worker	0.0939	0.0635	0.9035	2.8300e-003	0.3643	1.5700e-003	0.3659	0.0967	1.4400e-003	0.0982	0.0000	259.1888	259.1888	5.6700e-003	6.3700e-003	261.2299
Total	0.1057	0.4452	1.0533	4.7300e-003	0.4352	4.7500e-003	0.4400	0.1172	4.4800e-003	0.1217	0.0000	441.8313	441.8313	7.7200e-003	0.0333	451.9429

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0118	0.3816	0.1499	1.9000e-003	0.0709	3.1800e-003	0.0741	0.0205	3.0400e-003	0.0235	0.0000	182.6425	182.6425	2.0500e-003	0.0269	190.7130
Worker	0.0939	0.0635	0.9035	2.8300e-003	0.3643	1.5700e-003	0.3659	0.0967	1.4400e-003	0.0982	0.0000	259.1888	259.1888	5.6700e-003	6.3700e-003	261.2299
Total	0.1057	0.4452	1.0533	4.7300e-003	0.4352	4.7500e-003	0.4400	0.1172	4.4800e-003	0.1217	0.0000	441.8313	441.8313	7.7200e-003	0.0333	451.9429

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0117	0.3778	0.1484	1.8600e-003	0.0709	3.1700e-003	0.0741	0.0205	3.0300e-003	0.0235	0.0000	179.3204	179.3204	2.1200e-003	0.0264	187.2314
Worker	0.0883	0.0575	0.8470	2.7400e-003	0.3643	1.4800e-003	0.3658	0.0967	1.3700e-003	0.0981	0.0000	251.1214	251.1214	5.1500e-003	6.0000e-003	253.0367
Total	0.0999	0.4353	0.9954	4.6000e-003	0.4352	4.6500e-003	0.4399	0.1172	4.4000e-003	0.1216	0.0000	430.4418	430.4418	7.2700e-003	0.0324	440.2681

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0117	0.3778	0.1484	1.8600e-003	0.0709	3.1700e-003	0.0741	0.0205	3.0300e-003	0.0235	0.0000	179.3204	179.3204	2.1200e-003	0.0264	187.2314
Worker	0.0883	0.0575	0.8470	2.7400e-003	0.3643	1.4800e-003	0.3658	0.0967	1.3700e-003	0.0981	0.0000	251.1214	251.1214	5.1500e-003	6.0000e-003	253.0367
Total	0.0999	0.4353	0.9954	4.6000e-003	0.4352	4.6500e-003	0.4399	0.1172	4.4000e-003	0.1216	0.0000	430.4418	430.4418	7.2700e-003	0.0324	440.2681

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0116	0.3739	0.1473	1.8300e-003	0.0709	3.1500e-003	0.0740	0.0205	3.0100e-003	0.0235	0.0000	175.8256	175.8256	2.1900e-003	0.0258	183.5721
Worker	0.0831	0.0523	0.7985	2.6600e-003	0.3643	1.3900e-003	0.3657	0.0967	1.2800e-003	0.0980	0.0000	243.9062	243.9062	4.7000e-003	5.6800e-003	245.7154
Total	0.0947	0.4263	0.9458	4.4900e-003	0.4352	4.5400e-003	0.4398	0.1172	4.2900e-003	0.1215	0.0000	419.7318	419.7318	6.8900e-003	0.0315	429.2876

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0116	0.3739	0.1473	1.8300e-003	0.0709	3.1500e-003	0.0740	0.0205	3.0100e-003	0.0235	0.0000	175.8256	175.8256	2.1900e-003	0.0258	183.5721
Worker	0.0831	0.0523	0.7985	2.6600e-003	0.3643	1.3900e-003	0.3657	0.0967	1.2800e-003	0.0980	0.0000	243.9062	243.9062	4.7000e-003	5.6800e-003	245.7154
Total	0.0947	0.4263	0.9458	4.4900e-003	0.4352	4.5400e-003	0.4398	0.1172	4.2900e-003	0.1215	0.0000	419.7318	419.7318	6.8900e-003	0.0315	429.2876

3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0114	0.3694	0.1459	1.7800e-003	0.0706	3.1200e-003	0.0738	0.0204	2.9900e-003	0.0234	0.0000	171.8094	171.8094	2.2500e-003	0.0252	179.3678
Worker	0.0782	0.0479	0.7550	2.5800e-003	0.3629	1.2900e-003	0.3642	0.0964	1.1900e-003	0.0976	0.0000	236.6185	236.6185	4.2900e-003	5.3900e-003	238.3326
Total	0.0896	0.4173	0.9009	4.3600e-003	0.4336	4.4100e-003	0.4380	0.1168	4.1800e-003	0.1209	0.0000	408.4279	408.4279	6.5400e-003	0.0306	417.7003

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0114	0.3694	0.1459	1.7800e-003	0.0706	3.1200e-003	0.0738	0.0204	2.9900e-003	0.0234	0.0000	171.8094	171.8094	2.2500e-003	0.0252	179.3678
Worker	0.0782	0.0479	0.7550	2.5800e-003	0.3629	1.2900e-003	0.3642	0.0964	1.1900e-003	0.0976	0.0000	236.6185	236.6185	4.2900e-003	5.3900e-003	238.3326
Total	0.0896	0.4173	0.9009	4.3600e-003	0.4336	4.4100e-003	0.4380	0.1168	4.1800e-003	0.1209	0.0000	408.4279	408.4279	6.5400e-003	0.0306	417.7003

3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0114	0.3680	0.1459	1.7600e-003	0.0709	3.1200e-003	0.0740	0.0205	2.9800e-003	0.0234	0.0000	169.3114	169.3114	2.3200e-003	0.0248	176.7495
Worker	0.0741	0.0444	0.7226	2.5300e-003	0.3643	1.2100e-003	0.3655	0.0967	1.1100e-003	0.0979	0.0000	231.8847	231.8847	3.9700e-003	5.1900e-003	233.5300
Total	0.0855	0.4124	0.8684	4.2900e-003	0.4352	4.3300e-003	0.4396	0.1172	4.0900e-003	0.1213	0.0000	401.1961	401.1961	6.2900e-003	0.0300	410.2795

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0114	0.3680	0.1459	1.7600e-003	0.0709	3.1200e-003	0.0740	0.0205	2.9800e-003	0.0234	0.0000	169.3114	169.3114	2.3200e-003	0.0248	176.7495
Worker	0.0741	0.0444	0.7226	2.5300e-003	0.3643	1.2100e-003	0.3655	0.0967	1.1100e-003	0.0979	0.0000	231.8847	231.8847	3.9700e-003	5.1900e-003	233.5300
Total	0.0855	0.4124	0.8684	4.2900e-003	0.4352	4.3300e-003	0.4396	0.1172	4.0900e-003	0.1213	0.0000	401.1961	401.1961	6.2900e-003	0.0300	410.2795

3.4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3654	0.1454	1.7300e-003	0.0709	3.1000e-003	0.0740	0.0205	2.9700e-003	0.0234	0.0000	166.3397	166.3397	2.3900e-003	0.0243	173.6378
Worker	0.0700	0.0412	0.6923	2.4700e-003	0.3643	1.1300e-003	0.3655	0.0967	1.0400e-003	0.0978	0.0000	226.9012	226.9012	3.6700e-003	5.0000e-003	228.4825
Total	0.0813	0.4066	0.8377	4.2000e-003	0.4352	4.2300e-003	0.4395	0.1172	4.0100e-003	0.1212	0.0000	393.2409	393.2409	6.0600e-003	0.0293	402.1203

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3654	0.1454	1.7300e-003	0.0709	3.1000e-003	0.0740	0.0205	2.9700e-003	0.0234	0.0000	166.3397	166.3397	2.3900e-003	0.0243	173.6378
Worker	0.0700	0.0412	0.6923	2.4700e-003	0.3643	1.1300e-003	0.3655	0.0967	1.0400e-003	0.0978	0.0000	226.9012	226.9012	3.6700e-003	5.0000e-003	228.4825
Total	0.0813	0.4066	0.8377	4.2000e-003	0.4352	4.2300e-003	0.4395	0.1172	4.0100e-003	0.1212	0.0000	393.2409	393.2409	6.0600e-003	0.0293	402.1203

3.4 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3655	0.1455	1.6900e-003	0.0709	2.9900e-003	0.0739	0.0205	2.8600e-003	0.0233	0.0000	163.4823	163.4823	2.4500e-003	0.0238	170.6468
Worker	0.0660	0.0385	0.6724	2.4300e-003	0.3643	1.0700e-003	0.3654	0.0967	9.8000e-004	0.0977	0.0000	222.9312	222.9312	3.4300e-003	4.8400e-003	224.4596
Total	0.0773	0.4040	0.8180	4.1200e-003	0.4352	4.0600e-003	0.4393	0.1172	3.8400e-003	0.1210	0.0000	386.4135	386.4135	5.8800e-003	0.0287	395.1065

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3655	0.1455	1.6900e-003	0.0709	2.9900e-003	0.0739	0.0205	2.8600e-003	0.0233	0.0000	163.4823	163.4823	2.4500e-003	0.0238	170.6468
Worker	0.0660	0.0385	0.6724	2.4300e-003	0.3643	1.0700e-003	0.3654	0.0967	9.8000e-004	0.0977	0.0000	222.9312	222.9312	3.4300e-003	4.8400e-003	224.4596
Total	0.0773	0.4040	0.8180	4.1200e-003	0.4352	4.0600e-003	0.4393	0.1172	3.8400e-003	0.1210	0.0000	386.4135	386.4135	5.8800e-003	0.0287	395.1065

3.4 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3648	0.1462	1.6800e-003	0.0712	2.9900e-003	0.0742	0.0205	2.8600e-003	0.0234	0.0000	161.7219	161.7219	2.5100e-003	0.0236	168.8023
Worker	0.0627	0.0363	0.6515	2.4000e-003	0.3657	1.0100e-003	0.3667	0.0971	9.3000e-004	0.0980	0.0000	219.8897	219.8897	3.2100e-003	4.7200e-003	221.3773
Total	0.0740	0.4011	0.7977	4.0800e-003	0.4369	4.0000e-003	0.4409	0.1176	3.7900e-003	0.1214	0.0000	381.6115	381.6115	5.7200e-003	0.0283	390.1796

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3648	0.1462	1.6800e-003	0.0712	2.9900e-003	0.0742	0.0205	2.8600e-003	0.0234	0.0000	161.7219	161.7219	2.5100e-003	0.0236	168.8023
Worker	0.0627	0.0363	0.6515	2.4000e-003	0.3657	1.0100e-003	0.3667	0.0971	9.3000e-004	0.0980	0.0000	219.8897	219.8897	3.2100e-003	4.7200e-003	221.3773
Total	0.0740	0.4011	0.7977	4.0800e-003	0.4369	4.0000e-003	0.4409	0.1176	3.7900e-003	0.1214	0.0000	381.6115	381.6115	5.7200e-003	0.0283	390.1796

3.4 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3602	0.1454	1.6400e-003	0.0706	2.9600e-003	0.0736	0.0204	2.8300e-003	0.0232	0.0000	158.3904	158.3904	2.5500e-003	0.0230	165.3194
Worker	0.0590	0.0341	0.6264	2.3400e-003	0.3629	9.4000e-004	0.3639	0.0964	8.6000e-004	0.0972	0.0000	214.8153	214.8153	2.9800e-003	4.5700e-003	216.2530
Total	0.0702	0.3942	0.7718	3.9800e-003	0.4336	3.9000e-003	0.4375	0.1167	3.6900e-003	0.1204	0.0000	373.2058	373.2058	5.5300e-003	0.0276	381.5724

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3602	0.1454	1.6400e-003	0.0706	2.9600e-003	0.0736	0.0204	2.8300e-003	0.0232	0.0000	158.3904	158.3904	2.5500e-003	0.0230	165.3194
Worker	0.0590	0.0341	0.6264	2.3400e-003	0.3629	9.4000e-004	0.3639	0.0964	8.6000e-004	0.0972	0.0000	214.8153	214.8153	2.9800e-003	4.5700e-003	216.2530
Total	0.0702	0.3942	0.7718	3.9800e-003	0.4336	3.9000e-003	0.4375	0.1167	3.6900e-003	0.1204	0.0000	373.2058	373.2058	5.5300e-003	0.0276	381.5724

3.4 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3583	0.1458	1.6200e-003	0.0706	2.9400e-003	0.0736	0.0204	2.8100e-003	0.0232	0.0000	156.4817	156.4817	2.5900e-003	0.0227	163.3222
Worker	0.0561	0.0324	0.6083	2.3100e-003	0.3629	8.8000e-004	0.3638	0.0964	8.1000e-004	0.0972	0.0000	211.8309	211.8309	2.8000e-003	4.4800e-003	213.2359
Total	0.0673	0.3908	0.7540	3.9300e-003	0.4336	3.8200e-003	0.4374	0.1167	3.6200e-003	0.1204	0.0000	368.3126	368.3126	5.3900e-003	0.0272	376.5581

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3583	0.1458	1.6200e-003	0.0706	2.9400e-003	0.0736	0.0204	2.8100e-003	0.0232	0.0000	156.4817	156.4817	2.5900e-003	0.0227	163.3222
Worker	0.0561	0.0324	0.6083	2.3100e-003	0.3629	8.8000e-004	0.3638	0.0964	8.1000e-004	0.0972	0.0000	211.8309	211.8309	2.8000e-003	4.4800e-003	213.2359
Total	0.0673	0.3908	0.7540	3.9300e-003	0.4336	3.8200e-003	0.4374	0.1167	3.6200e-003	0.1204	0.0000	368.3126	368.3126	5.3900e-003	0.0272	376.5581

3.4 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3580	0.1467	1.6100e-003	0.0709	2.9400e-003	0.0738	0.0205	2.8100e-003	0.0233	0.0000	155.3740	155.3740	2.6400e-003	0.0226	162.1617
Worker	0.0537	0.0313	0.5951	2.2900e-003	0.3643	8.3000e-004	0.3652	0.0967	7.7000e-004	0.0975	0.0000	210.0347	210.0347	2.6500e-003	4.4200e-003	211.4189
Total	0.0650	0.3893	0.7417	3.9000e-003	0.4352	3.7700e-003	0.4390	0.1172	3.5800e-003	0.1208	0.0000	365.4087	365.4087	5.2900e-003	0.0270	373.5806

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3580	0.1467	1.6100e-003	0.0709	2.9400e-003	0.0738	0.0205	2.8100e-003	0.0233	0.0000	155.3740	155.3740	2.6400e-003	0.0226	162.1617
Worker	0.0537	0.0313	0.5951	2.2900e-003	0.3643	8.3000e-004	0.3652	0.0967	7.7000e-004	0.0975	0.0000	210.0347	210.0347	2.6500e-003	4.4200e-003	211.4189
Total	0.0650	0.3893	0.7417	3.9000e-003	0.4352	3.7700e-003	0.4390	0.1172	3.5800e-003	0.1208	0.0000	365.4087	365.4087	5.2900e-003	0.0270	373.5806

3.4 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0114	0.3594	0.1472	1.6200e-003	0.0712	2.9500e-003	0.0741	0.0205	2.8200e-003	0.0234	0.0000	155.9693	155.9693	2.6500e-003	0.0226	162.7830
Worker	0.0539	0.0314	0.5973	2.3000e-003	0.3657	8.4000e-004	0.3666	0.0971	7.7000e-004	0.0979	0.0000	210.8395	210.8395	2.6600e-003	4.4400e-003	212.2289
Total	0.0653	0.3908	0.7446	3.9200e-003	0.4369	3.7900e-003	0.4407	0.1176	3.5900e-003	0.1212	0.0000	366.8088	366.8088	5.3100e-003	0.0271	375.0120

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682
Total	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0114	0.3594	0.1472	1.6200e-003	0.0712	2.9500e-003	0.0741	0.0205	2.8200e-003	0.0234	0.0000	155.9693	155.9693	2.6500e-003	0.0226	162.7830
Worker	0.0539	0.0314	0.5973	2.3000e-003	0.3657	8.4000e-004	0.3666	0.0971	7.7000e-004	0.0979	0.0000	210.8395	210.8395	2.6600e-003	4.4400e-003	212.2289
Total	0.0653	0.3908	0.7446	3.9200e-003	0.4369	3.7900e-003	0.4407	0.1176	3.5900e-003	0.1212	0.0000	366.8088	366.8088	5.3100e-003	0.0271	375.0120

3.4 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0657	0.3867	0.8704	1.6700e-003		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	141.9450	141.9450	5.2900e-003	0.0000	142.0771
Total	0.0657	0.3867	0.8704	1.6700e-003		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	141.9450	141.9450	5.2900e-003	0.0000	142.0771

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6900e-003	0.1481	0.0607	6.7000e-004	0.0293	1.2200e-003	0.0306	8.4600e-003	1.1600e-003	9.6300e-003	0.0000	64.2927	64.2927	1.0900e-003	9.3300e-003	67.1014
Worker	0.0222	0.0130	0.2462	9.5000e-004	0.1508	3.5000e-004	0.1511	0.0400	3.2000e-004	0.0404	0.0000	86.9109	86.9109	1.1000e-003	1.8300e-003	87.4837
Total	0.0269	0.1611	0.3069	1.6200e-003	0.1801	1.5700e-003	0.1817	0.0485	1.4800e-003	0.0500	0.0000	151.2036	151.2036	2.1900e-003	0.0112	154.5851

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0657	0.3867	0.8704	1.6700e-003		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	141.9448	141.9448	5.2900e-003	0.0000	142.0770
Total	0.0657	0.3867	0.8704	1.6700e-003		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	141.9448	141.9448	5.2900e-003	0.0000	142.0770

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6900e-003	0.1481	0.0607	6.7000e-004	0.0293	1.2200e-003	0.0306	8.4600e-003	1.1600e-003	9.6300e-003	0.0000	64.2927	64.2927	1.0900e-003	9.3300e-003	67.1014
Worker	0.0222	0.0130	0.2462	9.5000e-004	0.1508	3.5000e-004	0.1511	0.0400	3.2000e-004	0.0404	0.0000	86.9109	86.9109	1.1000e-003	1.8300e-003	87.4837
Total	0.0269	0.1611	0.3069	1.6200e-003	0.1801	1.5700e-003	0.1817	0.0485	1.4800e-003	0.0500	0.0000	151.2036	151.2036	2.1900e-003	0.0112	154.5851

3.5 Paving - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0873	0.3730	1.2103	2.1500e-003		0.0143	0.0143		0.0143	0.0143	0.0000	184.3613	184.3613	7.1000e-003	0.0000	184.5387
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0873	0.3730	1.2103	2.1500e-003		0.0143	0.0143		0.0143	0.0143	0.0000	184.3613	184.3613	7.1000e-003	0.0000	184.5387

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.5 Paving - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.0800e-003	0.0206	8.0000e-005	0.0126	3.0000e-005	0.0126	3.3500e-003	3.0000e-005	3.3800e-003	0.0000	7.2711	7.2711	9.0000e-005	1.5000e-004	7.3190
Total	1.8600e-003	1.0800e-003	0.0206	8.0000e-005	0.0126	3.0000e-005	0.0126	3.3500e-003	3.0000e-005	3.3800e-003	0.0000	7.2711	7.2711	9.0000e-005	1.5000e-004	7.3190

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0873	0.3730	1.2103	2.1500e-003		0.0143	0.0143		0.0143	0.0143	0.0000	184.3611	184.3611	7.1000e-003	0.0000	184.5385
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0873	0.3730	1.2103	2.1500e-003		0.0143	0.0143		0.0143	0.0143	0.0000	184.3611	184.3611	7.1000e-003	0.0000	184.5385

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.5 Paving - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.0800e-003	0.0206	8.0000e-005	0.0126	3.0000e-005	0.0126	3.3500e-003	3.0000e-005	3.3800e-003	0.0000	7.2711	7.2711	9.0000e-005	1.5000e-004	7.3190
Total	1.8600e-003	1.0800e-003	0.0206	8.0000e-005	0.0126	3.0000e-005	0.0126	3.3500e-003	3.0000e-005	3.3800e-003	0.0000	7.2711	7.2711	9.0000e-005	1.5000e-004	7.3190

3.5 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0616	0.2633	0.8543	1.5100e-003		0.0101	0.0101		0.0101	0.0101	0.0000	130.1374	130.1374	5.0100e-003	0.0000	130.2626
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0616	0.2633	0.8543	1.5100e-003		0.0101	0.0101		0.0101	0.0101	0.0000	130.1374	130.1374	5.0100e-003	0.0000	130.2626

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.5 Paving - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	7.6000e-004	0.0145	6.0000e-005	8.9000e-003	2.0000e-005	8.9200e-003	2.3600e-003	2.0000e-005	2.3800e-003	0.0000	5.1325	5.1325	6.0000e-005	1.1000e-004	5.1664
Total	1.3100e-003	7.6000e-004	0.0145	6.0000e-005	8.9000e-003	2.0000e-005	8.9200e-003	2.3600e-003	2.0000e-005	2.3800e-003	0.0000	5.1325	5.1325	6.0000e-005	1.1000e-004	5.1664

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0616	0.2633	0.8543	1.5100e-003		0.0101	0.0101		0.0101	0.0101	0.0000	130.1372	130.1372	5.0100e-003	0.0000	130.2624
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0616	0.2633	0.8543	1.5100e-003		0.0101	0.0101		0.0101	0.0101	0.0000	130.1372	130.1372	5.0100e-003	0.0000	130.2624

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.5 Paving - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	7.6000e-004	0.0145	6.0000e-005	8.9000e-003	2.0000e-005	8.9200e-003	2.3600e-003	2.0000e-005	2.3800e-003	0.0000	5.1325	5.1325	6.0000e-005	1.1000e-004	5.1664
Total	1.3100e-003	7.6000e-004	0.0145	6.0000e-005	8.9000e-003	2.0000e-005	8.9200e-003	2.3600e-003	2.0000e-005	2.3800e-003	0.0000	5.1325	5.1325	6.0000e-005	1.1000e-004	5.1664

3.6 Architectural Coating - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	42.5356					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0200e-003	0.0580	0.1373	2.3000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	19.5324	19.5324	7.2000e-004	0.0000	19.5504
Total	42.5447	0.0580	0.1373	2.3000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	19.5324	19.5324	7.2000e-004	0.0000	19.5504

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.6 Architectural Coating - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6400e-003	0.2099	0.0860	9.4000e-004	0.0416	1.7200e-003	0.0433	0.0120	1.6500e-003	0.0136	0.0000	91.0813	91.0813	1.5500e-003	0.0132	95.0603
Worker	0.0315	0.0183	0.3488	1.3400e-003	0.2136	4.9000e-004	0.2141	0.0567	4.5000e-004	0.0572	0.0000	123.1238	123.1238	1.5500e-003	2.5900e-003	123.9352
Total	0.0381	0.2282	0.4348	2.2800e-003	0.2551	2.2100e-003	0.2573	0.0687	2.1000e-003	0.0708	0.0000	214.2051	214.2051	3.1000e-003	0.0158	218.9955

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	42.5356					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0200e-003	0.0580	0.1373	2.3000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	19.5324	19.5324	7.2000e-004	0.0000	19.5504
Total	42.5447	0.0580	0.1373	2.3000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	19.5324	19.5324	7.2000e-004	0.0000	19.5504

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.6 Architectural Coating - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6400e-003	0.2099	0.0860	9.4000e-004	0.0416	1.7200e-003	0.0433	0.0120	1.6500e-003	0.0136	0.0000	91.0813	91.0813	1.5500e-003	0.0132	95.0603
Worker	0.0315	0.0183	0.3488	1.3400e-003	0.2136	4.9000e-004	0.2141	0.0567	4.5000e-004	0.0572	0.0000	123.1238	123.1238	1.5500e-003	2.5900e-003	123.9352
Total	0.0381	0.2282	0.4348	2.2800e-003	0.2551	2.2100e-003	0.2573	0.0687	2.1000e-003	0.0708	0.0000	214.2051	214.2051	3.1000e-003	0.0158	218.9955

3.6 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	72.2828					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.0985	0.2333	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.1923	33.1923	1.2300e-003	0.0000	33.2230
Total	72.2981	0.0985	0.2333	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.1923	33.1923	1.2300e-003	0.0000	33.2230

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.6 Architectural Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3566	0.1461	1.6000e-003	0.0706	2.9300e-003	0.0736	0.0204	2.8000e-003	0.0232	0.0000	154.7787	154.7787	2.6300e-003	0.0225	161.5404
Worker	0.0535	0.0312	0.5928	2.2800e-003	0.3629	8.3000e-004	0.3638	0.0964	7.6000e-004	0.0971	0.0000	209.2300	209.2300	2.6400e-003	4.4100e-003	210.6089
Total	0.0648	0.3878	0.7389	3.8800e-003	0.4336	3.7600e-003	0.4373	0.1167	3.5600e-003	0.1203	0.0000	364.0087	364.0087	5.2700e-003	0.0269	372.1493

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	72.2828					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.0985	0.2333	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.1923	33.1923	1.2300e-003	0.0000	33.2229
Total	72.2981	0.0985	0.2333	3.9000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	33.1923	33.1923	1.2300e-003	0.0000	33.2229

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.6 Architectural Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.3566	0.1461	1.6000e-003	0.0706	2.9300e-003	0.0736	0.0204	2.8000e-003	0.0232	0.0000	154.7787	154.7787	2.6300e-003	0.0225	161.5404
Worker	0.0535	0.0312	0.5928	2.2800e-003	0.3629	8.3000e-004	0.3638	0.0964	7.6000e-004	0.0971	0.0000	209.2300	209.2300	2.6400e-003	4.4100e-003	210.6089
Total	0.0648	0.3878	0.7389	3.8800e-003	0.4336	3.7600e-003	0.4373	0.1167	3.5600e-003	0.1203	0.0000	364.0087	364.0087	5.2700e-003	0.0269	372.1493

3.6 Architectural Coating - 2040

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	72.5608					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493
Total	72.5758	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3200	33.3200	1.1700e-003	0.0000	33.3493

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.6 Architectural Coating - 2040

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0115	0.3533	0.1481	1.5500e-003	0.0709	2.9100e-003	0.0738	0.0205	2.7800e-003	0.0232	0.0000	149.4580	149.4580	2.7600e-003	0.0217	155.9790
Worker	0.0441	0.0274	0.5429	2.2000e-003	0.3643	6.6000e-004	0.3650	0.0967	6.1000e-004	0.0974	0.0000	201.4960	201.4960	2.1000e-003	4.2000e-003	202.8004
Total	0.0556	0.3807	0.6911	3.7500e-003	0.4352	3.5700e-003	0.4388	0.1172	3.3900e-003	0.1206	0.0000	350.9540	350.9540	4.8600e-003	0.0259	358.7794

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	72.5608					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0150	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492
Total	72.5758	0.0949	0.2339	3.9000e-004		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	33.3199	33.3199	1.1700e-003	0.0000	33.3492

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

3.6 Architectural Coating - 2040

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0115	0.3533	0.1481	1.5500e-003	0.0709	2.9100e-003	0.0738	0.0205	2.7800e-003	0.0232	0.0000	149.4580	149.4580	2.7600e-003	0.0217	155.9790
Worker	0.0441	0.0274	0.5429	2.2000e-003	0.3643	6.6000e-004	0.3650	0.0967	6.1000e-004	0.0974	0.0000	201.4960	201.4960	2.1000e-003	4.2000e-003	202.8004
Total	0.0556	0.3807	0.6911	3.7500e-003	0.4352	3.5700e-003	0.4388	0.1172	3.3900e-003	0.1206	0.0000	350.9540	350.9540	4.8600e-003	0.0259	358.7794

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	143.4512	191.3236	1,557.7093	3.8682	556.7315	2.1634	558.8949	148.5644	2.0325	150.5969	0.0000	357,713.7130	357,713.7130	17.3944	17.0054	363,216.1851
Unmitigated	143.4512	191.3236	1,557.7093	3.8682	556.7315	2.1634	558.8949	148.5644	2.0325	150.5969	0.0000	357,713.7130	357,713.7130	17.3944	17.0054	363,216.1851

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,503.00	8,343.50	6437.00	25,528,810	25,528,810
Apartments Low Rise	666.12	740.74	571.48	2,266,460	2,266,460
Apartments Mid Rise	1,213.12	1,094.93	912.07	3,940,757	3,940,757
Apartments Mid Rise	31,280.00	28,232.50	23517.50	101,611,453	101,611,453
City Park	3.54	8.90	9.94	15,024	15,024
City Park	0.07	0.17	0.19	291	291
Condo/Townhouse	7,503.00	8,343.50	6437.00	25,528,810	25,528,810
Condo/Townhouse	1,632.36	1,815.22	1400.44	5,554,073	5,554,073
Condo/Townhouse	42,090.00	46,805.00	36110.00	143,210,396	143,210,396
Condo/Townhouse	666.12	740.74	571.48	2,266,460	2,266,460
Congregate Care (Assisted Living)	130.00	146.50	157.50	465,709	465,709
General Heavy Industry	9,565.71	15,626.43	12389.18	47,979,873	47,979,873
General Office Building	66,156.42	15,010.85	4754.57	161,325,016	161,325,016
General Office Building	7,392.67	1,677.39	531.30	18,027,315	18,027,315
Government (Civic Center)	11,409.23	0.00	0.00	25,166,558	25,166,558
Government Office Building	1,777.11	0.00	0.00	2,989,055	2,989,055
Government Office Building	11,375.08	0.00	0.00	19,132,604	19,132,604
Library	60,479.35	67,228.19	35330.68	146,055,094	146,055,094
Office Park	43,801.96	6,489.18	3007.18	110,291,797	110,291,797

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,029.60	2,051.10	1838.25	6,852,537	6,852,537
Single Family Housing	56,951.52	57,554.82	51582.15	192,285,369	192,285,369
Single Family Housing	38,685.12	39,094.92	35037.90	130,612,538	130,612,538
Single Family Housing	45,170.40	45,648.90	40911.75	152,508,784	152,508,784
Single Family Housing	528.64	534.24	478.80	1,784,847	1,784,847
Single Family Housing	25,195.36	25,462.26	22819.95	85,067,073	85,067,073
Strip Mall	33,638.92	31,908.40	15506.39	58,602,492	58,602,492
Strip Mall	3,486.57	3,307.20	1607.19	6,073,959	6,073,959
Total	510,330.99	407,865.59	301,919.90	1,475,143,153	1,475,143,153

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Congregate Care (Assisted)	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Apartments Mid Rise	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
City Park	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Condo/Townhouse	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Congregate Care (Assisted Living)	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
General Heavy Industry	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
General Office Building	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Government (Civic Center)	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Government Office Building	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Library	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Office Park	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Single Family Housing	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938
Strip Mall	0.554215	0.059937	0.180347	0.124184	0.021399	0.006213	0.010875	0.016121	0.000581	0.000247	0.021996	0.000946	0.002938

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	1.21325e+008	0.6542	5.5905	2.3789	0.0357		0.4520	0.4520		0.4520	0.4520	0.0000	6,474.3548	6,474.3548	0.1241	0.1187	6,512.8287
Condo/Townhouse	1.9201e+006	0.0104	0.0885	0.0377	5.6000e-004		7.1500e-003	7.1500e-003		7.1500e-003	7.1500e-003	0.0000	102.4637	102.4637	1.9600e-003	1.8800e-003	103.0726
Condo/Townhouse	2.16275e+007	0.1166	0.9966	0.4241	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	1,154.1241	1,154.1241	0.0221	0.0212	1,160.9825
Condo/Townhouse	4.70529e+006	0.0254	0.2168	0.0923	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	251.0924	251.0924	4.8100e-003	4.6000e-003	252.5845
Congregate Care (Assisted Living)	719109	3.8800e-003	0.0331	0.0141	2.1000e-004		2.6800e-003	2.6800e-003		2.6800e-003	2.6800e-003	0.0000	38.3744	38.3744	7.4000e-004	7.0000e-004	38.6024
General Heavy Industry	7.8692e+007	0.4243	3.8575	3.2403	0.0231		0.2932	0.2932		0.2932	0.2932	0.0000	4,199.3046	4,199.3046	0.0805	0.0770	4,224.2590
General Office Building	2.32974e+007	0.1256	1.1420	0.9593	6.8500e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.2371	1,243.2371	0.0238	0.0228	1,250.6250
General Office Building	2.60337e+006	0.0140	0.1276	0.1072	7.7000e-004		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	138.9259	138.9259	2.6600e-003	2.5500e-003	139.7515
Government (Civic Center)	1.15167e+006	6.2100e-003	0.0565	0.0474	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4573	61.4573	1.1800e-003	1.1300e-003	61.8226
Government Office Building	1.72716e+006	9.3100e-003	0.0847	0.0711	5.1000e-004		6.4300e-003	6.4300e-003		6.4300e-003	6.4300e-003	0.0000	92.1678	92.1678	1.7700e-003	1.6900e-003	92.7155
Government Office Building	269831	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.3992	14.3992	2.8000e-004	2.6000e-004	14.4848
Library	2.71381e+007	0.1463	1.3303	1.1175	7.9800e-003		0.1011	0.1011		0.1011	0.1011	0.0000	1,448.1903	1,448.1903	0.0278	0.0266	1,456.7961
Office Park	1.14352e+007	0.0617	0.5606	0.4709	3.3600e-003		0.0426	0.0426		0.0426	0.0426	0.0000	610.2259	610.2259	0.0117	0.0112	613.8522
Single Family Housing	1.1592e+008	0.6251	5.3414	2.2729	0.0341		0.4319	0.4319		0.4319	0.4319	0.0000	6,185.9263	6,185.9263	0.1186	0.1134	6,222.6861
Single Family Housing	1.35353e+008	0.7298	6.2369	2.6540	0.0398		0.5043	0.5043		0.5043	0.5043	0.0000	7,222.9520	7,222.9520	0.1384	0.1324	7,265.8744
Single Family Housing	1.58407e+006	8.5400e-003	0.0730	0.0311	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	84.5319	84.5319	1.6200e-003	1.5500e-003	85.0343
Single Family Housing	1.70655e+008	0.9202	7.8635	3.3462	0.0502		0.6358	0.6358		0.6358	0.6358	0.0000	9,106.8065	9,106.8065	0.1746	0.1670	9,160.9237
Single Family Housing	6.08169e+006	0.0328	0.2802	0.1193	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	324.5423	324.5423	6.2200e-003	5.9500e-003	326.4708
Single Family Housing	7.54978e+007	0.4071	3.4788	1.4804	0.0222		0.2813	0.2813		0.2813	0.2813	0.0000	4,028.8524	4,028.8524	0.0772	0.0739	4,052.7939

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	1.6698e+006	9.0000e-003	0.0819	0.0688	4.9000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	89.1070	89.1070	1.7100e-003	1.6300e-003	89.6365
Strip Mall	173070	9.3000e-004	8.4800e-003	7.1300e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.2357	9.2357	1.8000e-004	1.7000e-004	9.2905
Total		4.8871	42.1981	20.9668	0.2665		3.3765	3.3765		3.3765	3.3765	0.0000	48,365.2821	48,365.2821	0.9270	0.8867	48,652.6928

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.37646e+006	7.4200e-003	0.0634	0.0270	4.0000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003	0.0000	73.4530	73.4530	1.4100e-003	1.3500e-003	73.8895
Apartments Low Rise	1.55041e+007	0.0836	0.7144	0.3040	4.5600e-003		0.0578	0.0578		0.0578	0.0578	0.0000	827.3556	827.3556	0.0159	0.0152	832.2721
Apartments Mid Rise	3.20722e+006	0.0173	0.1478	0.0629	9.4000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	171.1497	171.1497	3.2800e-003	3.1400e-003	172.1667
Apartments Mid Rise	8.26975e+007	0.4459	3.8106	1.6215	0.0243		0.3081	0.3081		0.3081	0.3081	0.0000	4,413.0523	4,413.0523	0.0846	0.0809	4,439.2769
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
Condo/Townhouse	1.21325e+008	0.6542	5.5905	2.3789	0.0357		0.4520	0.4520		0.4520	0.4520	0.0000	6,474.3548	6,474.3548	0.1241	0.1187	6,512.8287
Condo/Townhouse	1.9201e+006	0.0104	0.0885	0.0377	5.6000e-004		7.1500e-003	7.1500e-003		7.1500e-003	7.1500e-003	0.0000	102.4637	102.4637	1.9600e-003	1.8800e-003	103.0726
Condo/Townhouse	2.16275e+007	0.1166	0.9966	0.4241	6.3600e-003		0.0806	0.0806		0.0806	0.0806	0.0000	1,154.1241	1,154.1241	0.0221	0.0212	1,160.9825
Condo/Townhouse	4.70529e+006	0.0254	0.2168	0.0923	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	251.0924	251.0924	4.8100e-003	4.6000e-003	252.5845

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	719109	3.8800e-003	0.0331	0.0141	2.1000e-004		2.6800e-003	2.6800e-003		2.6800e-003	2.6800e-003	0.0000	38.3744	38.3744	7.4000e-004	7.0000e-004	38.6024
General Heavy Industry	7.8692e+007	0.4243	3.8575	3.2403	0.0231		0.2932	0.2932		0.2932	0.2932	0.0000	4,199.3046	4,199.3046	0.0805	0.0770	4,224.2590
General Office Building	2.32974e+007	0.1256	1.1420	0.9593	6.8500e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.2371	1,243.2371	0.0238	0.0228	1,250.6250
General Office Building	2.60337e+006	0.0140	0.1276	0.1072	7.7000e-004		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	138.9259	138.9259	2.6600e-003	2.5500e-003	139.7515
Government (Civic Center)	1.15167e+006	6.2100e-003	0.0565	0.0474	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4573	61.4573	1.1800e-003	1.1300e-003	61.8226
Government Office Building	1.72716e+006	9.3100e-003	0.0847	0.0711	5.1000e-004		6.4300e-003	6.4300e-003		6.4300e-003	6.4300e-003	0.0000	92.1678	92.1678	1.7700e-003	1.6900e-003	92.7155
Government Office Building	269831	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.3992	14.3992	2.8000e-004	2.6000e-004	14.4848
Library	2.71381e+007	0.1463	1.3303	1.1175	7.9800e-003		0.1011	0.1011		0.1011	0.1011	0.0000	1,448.1903	1,448.1903	0.0278	0.0266	1,456.7961
Office Park	1.14352e+007	0.0617	0.5606	0.4709	3.3600e-003		0.0426	0.0426		0.0426	0.0426	0.0000	610.2259	610.2259	0.0117	0.0112	613.8522
Single Family Housing	1.1592e+008	0.6251	5.3414	2.2729	0.0341		0.4319	0.4319		0.4319	0.4319	0.0000	6,185.9263	6,185.9263	0.1186	0.1134	6,222.6861
Single Family Housing	1.35353e+008	0.7298	6.2369	2.6540	0.0398		0.5043	0.5043		0.5043	0.5043	0.0000	7,222.9520	7,222.9520	0.1384	0.1324	7,265.8744
Single Family Housing	1.58407e+006	8.5400e-003	0.0730	0.0311	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	84.5319	84.5319	1.6200e-003	1.5500e-003	85.0343
Single Family Housing	1.70655e+008	0.9202	7.8635	3.3462	0.0502		0.6358	0.6358		0.6358	0.6358	0.0000	9,106.8065	9,106.8065	0.1746	0.1670	9,160.9237
Single Family Housing	6.08169e+006	0.0328	0.2802	0.1193	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	324.5423	324.5423	6.2200e-003	5.9500e-003	326.4708
Single Family Housing	7.54978e+007	0.4071	3.4788	1.4804	0.0222		0.2813	0.2813		0.2813	0.2813	0.0000	4,028.8524	4,028.8524	0.0772	0.0739	4,052.7939
Strip Mall	1.6698e+006	9.0000e-003	0.0819	0.0688	4.9000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	89.1070	89.1070	1.7100e-003	1.6300e-003	89.6365
Strip Mall	173070	9.3000e-004	8.4800e-003	7.1300e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.2357	9.2357	1.8000e-004	1.7000e-004	9.2905
Total		4.8871	42.1981	20.9668	0.2665		3.3765	3.3765		3.3765	3.3765	0.0000	48,365.2821	48,365.2821	0.9270	0.8867	48,652.6928

San Jacinto General Plan Buildout Year (2040) - 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			
Apartments Low Rise	379465	67.2965	5.6800e-003	6.9000e-004	67.6437
Apartments Low Rise	4.2742e+006	758.0101	0.0640	7.7500e-003	761.9206
Apartments Mid Rise	2.27701e+007	4,038.1683	0.3408	0.0413	4,059.0005
Apartments Mid Rise	883082	156.6107	0.0132	1.6000e-003	157.4186
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.10915e+006	196.7025	0.0166	2.0100e-003	197.7173
Condo/Townhouse	2.85991e+007	5,071.9265	0.4281	0.0519	5,098.0917
Condo/Townhouse	452612	80.2688	6.7700e-003	8.2000e-004	80.6828
Condo/Townhouse	5.0981e+006	904.1260	0.0763	9.2500e-003	908.7903
Congregate Care (Assisted Living)	198001	35.1145	2.9600e-003	3.6000e-004	35.2957
General Heavy Industry	2.41455e+007	4,282.1001	0.3614	0.0438	4,304.1907
General Office Building	6.24207e+007	11,070.0305	0.9344	0.1133	11,127.1389
General Office Building	6.97522e+006	1,237.0241	0.1044	0.0127	1,243.4057
Government (Civic Center)	3.08566e+006	547.2284	0.0462	5.6000e-003	550.0515
Government Office Building	4.62758e+006	820.6804	0.0693	8.4000e-003	824.9142
Government Office Building	722959	128.2135	0.0108	1.3100e-003	128.8750

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	8.32693e+006	1,476.7435	0.1246	0.0151	1,484.3617
Office Park	3.79063e+007	6,722.5146	0.5674	0.0688	6,757.1950
Single Family Housing	1.7124e+006	303.6869	0.0256	3.1100e-003	305.2535
Single Family Housing	2.12577e+007	3,769.9544	0.3182	0.0386	3,789.4030
Single Family Housing	3.26392e+007	5,788.4126	0.4886	0.0592	5,818.2740
Single Family Housing	3.81109e+007	6,758.7980	0.5705	0.0692	6,793.6655
Single Family Housing	4.80508e+007	8,521.5942	0.7193	0.0872	8,565.5557
Single Family Housing	446021	79.0998	6.6800e-003	8.1000e-004	79.5079
Strip Mall	9.21427e+006	1,634.1101	0.1379	0.0167	1,642.5402
Strip Mall	955030	169.3702	0.0143	1.7300e-003	170.2440
Total		64,617.7852	5.4539	0.6611	64,951.1375

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	379465	67.2965	5.6800e-003	6.9000e-004	67.6437

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	4.2742e+006	758.0101	0.0640	7.7500e-003	761.9206
Apartments Mid Rise	2.27701e+007	4,038.1683	0.3408	0.0413	4,059.0005
Apartments Mid Rise	883082	156.6107	0.0132	1.6000e-003	157.4186
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.10915e+006	196.7025	0.0166	2.0100e-003	197.7173
Condo/Townhouse	2.85991e+007	5,071.9265	0.4281	0.0519	5,098.0917
Condo/Townhouse	452612	80.2688	6.7700e-003	8.2000e-004	80.6828
Condo/Townhouse	5.0981e+006	904.1260	0.0763	9.2500e-003	908.7903
Congregate Care (Assisted Living)	198001	35.1145	2.9600e-003	3.6000e-004	35.2957
General Heavy Industry	2.41455e+007	4,282.1001	0.3614	0.0438	4,304.1907
General Office Building	6.24207e+007	11,070.0305	0.9344	0.1133	11,127.1389
General Office Building	6.97522e+006	1,237.0241	0.1044	0.0127	1,243.4057
Government (Civic Center)	3.08566e+006	547.2284	0.0462	5.6000e-003	550.0515
Government Office Building	4.62758e+006	820.6804	0.0693	8.4000e-003	824.9142
Government Office Building	722959	128.2135	0.0108	1.3100e-003	128.8750
Library	8.32693e+006	1,476.7435	0.1246	0.0151	1,484.3617
Office Park	3.79063e+007	6,722.5146	0.5674	0.0688	6,757.1950
Single Family Housing	1.7124e+006	303.6869	0.0256	3.1100e-003	305.2535
Single Family Housing	2.12577e+007	3,769.9544	0.3182	0.0386	3,789.4030

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	3.26392e+007	5,788.4126	0.4886	0.0592	5,818.2740
Single Family Housing	3.81109e+007	6,758.7980	0.5705	0.0692	6,793.6655
Single Family Housing	4.80508e+007	8,521.5942	0.7193	0.0872	8,565.5557
Single Family Housing	446021	79.0998	6.6800e-003	8.1000e-004	79.5079
Strip Mall	9.21427e+006	1,634.1101	0.1379	0.0167	1,642.5402
Strip Mall	955030	169.3702	0.0143	1.7300e-003	170.2440
Total		64,617.7852	5.4539	0.6611	64,951.1375

6.0 Area Detail

6.1 Mitigation Measures Area

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	216.2591	3.8042	329.6276	0.0175		1.8356	1.8356		1.8356	1.8356	0.0000	540.8831	540.8831	0.5155	0.0000	553.7706
Unmitigated	216.2591	3.8042	329.6276	0.0175		1.8356	1.8356		1.8356	1.8356	0.0000	540.8831	540.8831	0.5155	0.0000	553.7706

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	18.7379					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	187.6494					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.8718	3.8042	329.6276	0.0175		1.8356	1.8356		1.8356	1.8356	0.0000	540.8831	540.8831	0.5155	0.0000	553.7706
Total	216.2591	3.8042	329.6276	0.0175		1.8356	1.8356		1.8356	1.8356	0.0000	540.8831	540.8831	0.5155	0.0000	553.7706

San Jacinto General Plan Buildout Year (2040) - 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	18.7379					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	187.6494					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.8718	3.8042	329.6276	0.0175		1.8356	1.8356		1.8356	1.8356	0.0000	540.8831	540.8831	0.5155	0.0000	553.7706
Total	216.2591	3.8042	329.6276	0.0175		1.8356	1.8356		1.8356	1.8356	0.0000	540.8831	540.8831	0.5155	0.0000	553.7706

7.0 Water Detail

7.1 Mitigation Measures Water

San Jacinto General Plan Buildout Year (2040) - 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	18,505.32 59	163.3541	3.9966	23,780.16 41
Unmitigated	18,505.32 59	163.3541	3.9966	23,780.16 41

San Jacinto General Plan Buildout Year (2040) - 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

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	72.7119 / 45.8401	281.2948	2.3911	0.0586	358.5314
Apartments Mid Rise	389.165 / 245.343	1,505.5321	12.7976	0.3136	1,918.9142
City Park	0 / 5.51656	10.8693	9.2000e-004	1.1000e-004	10.9254
Condo/Townhouse	461.877 / 291.183	1,786.8269	15.1887	0.3722	2,277.4456
Congregate Care (Assisted Living)	3.2577 / 2.05377	12.6028	0.1071	2.6200e-003	16.0632
General Heavy Industry	562.867 / 0	1,478.3537	18.4507	0.4464	2,072.6402
General Office Building	1342.11 / 822.584	5,145.7564	44.1311	1.0809	6,571.1447
Government (Civic Center)	66.702 / 40.8819	255.7406	2.1933	0.0537	326.5815
Government Office Building	115.662 / 70.8894	443.4559	3.8032	0.0932	566.2944
Library	26.2642 / 41.0799	149.9224	0.8678	0.0217	178.0702
Office Park	703.26 / 431.031	2,696.3561	23.1245	0.5664	3,443.2539
Single Family Housing	1163.39 / 733.442	4,500.7167	38.2578	0.9374	5,736.5028
Strip Mall	62.0483 / 38.0296	237.8982	2.0403	0.0500	303.7966
Total		18,505.3259	163.3541	3.9966	23,780.1641

San Jacinto General Plan Buildout Year (2040) - 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			
Apartments Low Rise	72.7119 / 45.8401	281.2948	2.3911	0.0586	358.5314
Apartments Mid Rise	389.165 / 245.343	1,505.5321	12.7976	0.3136	1,918.9142
City Park	0 / 5.51656	10.8693	9.2000e-004	1.1000e-004	10.9254
Condo/Townhouse	461.877 / 291.183	1,786.8269	15.1887	0.3722	2,277.4456
Congregate Care (Assisted Living)	3.2577 / 2.05377	12.6028	0.1071	2.6200e-003	16.0632
General Heavy Industry	562.867 / 0	1,478.3537	18.4507	0.4464	2,072.6402
General Office Building	1342.11 / 822.584	5,145.7564	44.1311	1.0809	6,571.1447
Government (Civic Center)	66.702 / 40.8819	255.7406	2.1933	0.0537	326.5815
Government Office Building	115.662 / 70.8894	443.4559	3.8032	0.0932	566.2944
Library	26.2642 / 41.0799	149.9224	0.8678	0.0217	178.0702
Office Park	703.26 / 431.031	2,696.3561	23.1245	0.5664	3,443.2539
Single Family Housing	1163.39 / 733.442	4,500.7167	38.2578	0.9374	5,736.5028
Strip Mall	62.0483 / 38.0296	237.8982	2.0403	0.0500	303.7966
Total		18,505.3259	163.3541	3.9966	23,780.1641

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9,915.540 2	585.9916	0.0000	24,565.33 11
Unmitigated	9,915.540 2	585.9916	0.0000	24,565.33 11

San Jacinto General Plan Buildout Year (2040) - 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			
Apartments Low Rise	513.36	104.2074	6.1585	0.0000	258.1695
Apartments Mid Rise	2747.58	557.7339	32.9611	0.0000	1,381.7622
City Park	0.4	0.0812	4.8000e-003	0.0000	0.2012
Condo/Townhouse	3260.94	661.9414	39.1196	0.0000	1,639.9317
Congregate Care (Assisted Living)	45.63	9.2625	0.5474	0.0000	22.9474
General Heavy Industry	3018.18	612.6633	36.2074	0.0000	1,517.8473
General Office Building	7022.65	1,425.5345	84.2467	0.0000	3,531.7014
Government (Civic Center)	1913.83	388.4902	22.9591	0.0000	962.4680
Government Office Building	541.46	109.9115	6.4956	0.0000	272.3011
Library	773.02	156.9161	9.2735	0.0000	388.7529
Office Park	3679.84	746.9743	44.1449	0.0000	1,850.5971
Single Family Housing	24450.8	4,963.2833	293.3216	0.0000	12,296.3243
Strip Mall	879.55	178.5407	10.5515	0.0000	442.3270
Total		9,915.5402	585.9916	0.0000	24,565.3311

San Jacinto General Plan Buildout Year (2040) - 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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	513.36	104.2074	6.1585	0.0000	258.1695
Apartments Mid Rise	2747.58	557.7339	32.9611	0.0000	1,381.7622
City Park	0.4	0.0812	4.8000e-003	0.0000	0.2012
Condo/Townhouse	3260.94	661.9414	39.1196	0.0000	1,639.9317
Congregate Care (Assisted Living)	45.63	9.2625	0.5474	0.0000	22.9474
General Heavy Industry	3018.18	612.6633	36.2074	0.0000	1,517.8473
General Office Building	7022.65	1,425.5345	84.2467	0.0000	3,531.7014
Government (Civic Center)	1913.83	388.4902	22.9591	0.0000	962.4680
Government Office Building	541.46	109.9115	6.4956	0.0000	272.3011
Library	773.02	156.9161	9.2735	0.0000	388.7529
Office Park	3679.84	746.9743	44.1449	0.0000	1,850.5971
Single Family Housing	24450.8	4,963.2833	293.3216	0.0000	12,296.3243
Strip Mall	879.55	178.5407	10.5515	0.0000	442.3270
Total		9,915.5402	585.9916	0.0000	24,565.3311

San Jacinto General Plan Buildout Year (2040) - Riverside-South Coast County, Annual

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation



Appendix C:

Energy Consumption Output

On-road Mobile (Operational) Energy Usage

Note: Assumes that all vehicles that are generated as part of proposed project use gasoline as a fuel source (for simplicity), since the vast majority of vehicles generated by the project would use gasoline.

Unmitigated:

Step 1:

Therefore:

Average Daily VMT:

4,041,488 Note: Estimated via CalEEMod output (1,475,143,153 annual VMT, divided by 365 days per year).

Step 2:

Given:

Fleet Mix (CalEEMod Output)

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
55.42%	5.99%	18.03%	12.42%	2.14%	0.62%	1.09%	1.61%	0.06%	0.02%	2.20%	0.09%	0.29%

And:

Gasoline MPG Factors for each Vehicle Class - Year 2040 (EMFAC2021 Output)

LDA	LDT1	LDT2	MDV	MCY	MH	OBUS	UBUS
34.41	29.24	27.97	23.00	43.43	4.87	5.77	15.94

Diesel MPG Factors for each Vehicle Class - Year 2040 (EMFAC2021 Output)

LHD1	LHD2	MHD	HHD	SBUS
21.65	18.40	9.80	7.50	8.01

Therefore:

Weighted Average MPG Factors

Gasoline: 31.4 Diesel: 14.6

Step 3:

Therefore:

121,261 daily gallons of gasoline

or

44,260,184 annual gallons of gasoline

Therefore:

15,347.17 daily gallons of gasoline

or

5,601,716 annual gallons of gasoline

Off-road (i.e. On-site) Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source. Demolition, Site preparation and grading off-road mobile vehicle on-site gallons of fuel are calculated below.

Given Factor:	965.0 metric tons CO2	(provided in CalEEMod Output File)
Conversion Factor:	2204.6262 pounds	per metric ton
Intermediate Result:	2,127,442 pounds	CO2
Conversion Factor:	22.38 pounds	CO2 per 1 gallon of diesel fuel
Final Result:	95,060 gallons	diesel fuel

Source: U.S. EIA, 2016
<http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11>

Mitigated Onsite Scenario	Total CO2 (MT/yr) (provided in CalEEMod Output File)
Site Preparation	365.7505
Grading	599.2394

On-road Mobile (Construction) Energy Usage - Site Preparation

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

18

Worker Trip Length (miles) (CalEEMod Output)

14.7

Therefore:

Average Worker Daily VMT:

265

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2022

LDA	LDT1	LDT2
28.28	23.36	22.70

Therefore:

Weighted Average Worker MPG Factor

25.65

Step 3: **Therefore:**

10 Worker daily gallons of gasoline

Step 4: 262 # of Days (CalEEMod Output)

Therefore:

Result: 2,702 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Grading

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

20

Worker Trip Length (miles) (CalEEMod Output)

14.7

Therefore:

Average Worker Daily VMT:

294

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2022

LDA	LDT1	LDT2
28.28	23.36	22.70

Therefore:

Weighted Average Worker MPG Factor

25.65

Step 3: **Therefore:**

11 Worker daily gallons of gasoline

Step 4: 261 # of Days (CalEEMod Output)

Therefore:

Result: 2,991 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Building Construction

Step 1: **Total Daily Worker Trips (CalEEMod Output)** **Total Daily Vendor Trips (CalEEMod Output)**
254 86

Worker Trip Length (miles) (CalEEMod Output) **Vendor Trip Length (miles) (CalEEMod Output)**
14.7 6.9

Therefore:

Average Worker Daily VMT:
3,734

Average Vendor Daily VMT:
593

Step 2: Given: **Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2	Fleet Mix for Workers (CalEEMod Output)
0.5	0.25	0.25	MHD
Assumed Fleet Mix for Vendors			HHD
			0% 100%

And:

MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2022

Gasoline:

LDA	LDT1	LDT2
28.28	23.36	22.70

Diesel:

MHD	HHD
8.14	6.01

Therefore:

Weighted Average Worker (Gasoline) MPG Factor
25.65

Weighted Average Vendor (Diesel) MPG Factor
6.01

Step 3: **Therefore:**
146 Worker daily gallons of gasoline

Therefore:
99 Vendor daily gallons of diesel

Step 4: **3543** # of Days (CalEEMod Output)

Therefore:
515,677 Total gallons of gasoline

Therefore:
349,756 Total gallons of diesel

On-road Mobile (Construction) Energy Usage - Paving

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

14.7

Therefore:

Average Worker Daily VMT:

221

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2022

LDA	LDT1	LDT2
28.28	23.36	22.70

Therefore:

Weighted Average Worker MPG Factor

25.65

Step 3: **Therefore:**

9 Worker daily gallons of gasoline

Step 4: 261 # of Days (CalEEMod Output)

Therefore:

Result: 2,243 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Architectural Coating

Step 1:	Total Daily Worker Trips (CalEEMod Output) 254	Total Daily Vendor Trips (CalEEMod Output) 86										
	Worker Trip Length (miles) (CalEEMod Output) 14.7	Vendor Trip Length (miles) (CalEEMod Output) 6.9										
	Therefore: Average Worker Daily VMT: 3,734	Average Vendor Daily VMT: 593										
Step 2:	Given: Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15) <table border="0"> <tr> <td>LDA</td> <td>LDT1</td> <td>LDT2</td> </tr> <tr> <td>0.5</td> <td>0.25</td> <td>0.25</td> </tr> </table> Assumed Fleet Mix for Vendors	LDA	LDT1	LDT2	0.5	0.25	0.25	Fleet Mix for Workers (CalEEMod Output) <table border="0"> <tr> <td>MHD</td> <td>HHD</td> </tr> <tr> <td>0%</td> <td>100%</td> </tr> </table>	MHD	HHD	0%	100%
LDA	LDT1	LDT2										
0.5	0.25	0.25										
MHD	HHD											
0%	100%											
	And: MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2022 <u>Gasoline:</u> <table border="0"> <tr> <td>LDA</td> <td>LDT1</td> <td>LDT2</td> </tr> <tr> <td>28.28</td> <td>23.36</td> <td>22.70</td> </tr> </table>	LDA	LDT1	LDT2	28.28	23.36	22.70	<u>Diesel:</u> <table border="0"> <tr> <td>MHD</td> <td>HHD</td> </tr> <tr> <td>8.14</td> <td>6.01</td> </tr> </table>	MHD	HHD	8.14	6.01
LDA	LDT1	LDT2										
28.28	23.36	22.70										
MHD	HHD											
8.14	6.01											
	Therefore: Weighted Average Worker (Gasoline) MPG Factor 25.65	Weighted Average Vendor (Diesel) MPG Factor 6.01										
Step 3:	Therefore: 146 Worker daily gallons of gasoline	Therefore: 99 Vendor daily gallons of diesel										
Step 4:	674 # of Days (CalEEMod Output) Therefore: 98,099 Total gallons of gasoline	Therefore: 66,536 Total gallons of diesel										

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Riverside

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	MPG (Derived)
Riverside	2022	All Other Buses	Aggregate	Aggregate	Diesel	215.1333291	11664.07426	1.205447515	9.676136138
Riverside	2022	LDA	Aggregate	Aggregate	Gasoline	631263.9969	25847634.02	914.0720229	28.27745886
Riverside	2022	LDA	Aggregate	Aggregate	Diesel	2196.653698	78564.3487	1.869583594	42.02237812
Riverside	2022	LDT1	Aggregate	Aggregate	Gasoline	59198.30437	2131713.274	91.25607995	23.35968492
Riverside	2022	LDT1	Aggregate	Aggregate	Diesel	34.7886086	679.0259591	0.02790836	24.3305572
Riverside	2022	LDT2	Aggregate	Aggregate	Gasoline	261723.7424	11028402.51	485.8573097	22.69885066
Riverside	2022	LDT2	Aggregate	Aggregate	Diesel	794.7199281	35894.03111	1.151766279	31.16433582
Riverside	2022	LHD1	Aggregate	Aggregate	Gasoline	24636.9459	880794.7049	68.81347567	12.79974157
Riverside	2022	LHD1	Aggregate	Aggregate	Diesel	19562.12381	724726.8784	35.57323486	20.37281347
Riverside	2022	LHD2	Aggregate	Aggregate	Gasoline	3846.221116	134927.7274	11.75874572	11.47467006
Riverside	2022	LHD2	Aggregate	Aggregate	Diesel	8604.492864	323393.4583	19.14091367	16.89540342
Riverside	2022	MCY	Aggregate	Aggregate	Gasoline	30959.73459	182837.7155	4.417655057	41.38795654
Riverside	2022	MDV	Aggregate	Aggregate	Gasoline	216352.2701	8582929.894	465.0624703	18.45543436
Riverside	2022	MDV	Aggregate	Aggregate	Diesel	3170.444078	132949.0743	5.782148851	22.99302175
Riverside	2022	MH	Aggregate	Aggregate	Gasoline	6636.976991	58779.89086	12.08018686	4.865809737
Riverside	2022	MH	Aggregate	Aggregate	Diesel	2733.786727	24412.34718	2.352554249	10.37695398
Riverside	2022	Motor Coach	Aggregate	Aggregate	Diesel	53.94328758	7715.34335	1.372729691	5.620438897
Riverside	2022	OBUS	Aggregate	Aggregate	Gasoline	567.9898279	25802.03422	5.161818392	4.998632703
Riverside	2022	PTO	Aggregate	Aggregate	Diesel	0	51023.12477	10.5814287	4.82195044
Riverside	2022	SBUS	Aggregate	Aggregate	Gasoline	516.3584192	23324.40668	2.640416929	8.833607458
Riverside	2022	SBUS	Aggregate	Aggregate	Diesel	675.6625066	14483.87787	1.980586861	7.312922326
Riverside	2022	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	14.21983044	965.4698166	0.10730922	8.997081646
Riverside	2022	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	19.13486381	1324.450974	0.146797208	9.022317209
Riverside	2022	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	57.98605851	3460.828288	0.37980663	9.112079706
Riverside	2022	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	102.662908	21687.56297	2.227985047	9.734160021
Riverside	2022	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	510.0944424	17397.65983	1.965450107	8.851743308
Riverside	2022	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	472.7443839	16615.29736	1.905327265	8.720442767
Riverside	2022	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	1386.191328	47598.85182	5.322503947	8.942943451
Riverside	2022	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	216.292565	11758.7032	1.2598304	9.333560453
Riverside	2022	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	1927.608036	78769.05083	8.89158249	8.858833725
Riverside	2022	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	4052.093779	182023.2237	20.77686849	8.760859403
Riverside	2022	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	3052.0604	131682.5488	14.80295951	8.895690673
Riverside	2022	T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	1402.861312	67606.99334	7.44886816	9.076143099
Riverside	2022	T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	22.36180159	1115.674721	0.123980138	8.998818208
Riverside	2022	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	444.8325529	26956.08499	2.770700009	7.228980007
Riverside	2022	T6 OOS Class 4	Aggregate	Aggregate	Diesel	8.382871587	564.4069441	0.062746924	8.994973912
Riverside	2022	T6 OOS Class 5	Aggregate	Aggregate	Diesel	11.23595738	774.2648336	0.085856521	9.018124912
Riverside	2022	T6 OOS Class 6	Aggregate	Aggregate	Diesel	34.12660902	2023.176162	0.222151373	9.107196282
Riverside	2022	T6 OOS Class 7	Aggregate	Aggregate	Diesel	57.63572068	14711.00649	1.509790578	9.743739767
Riverside	2022	T6 Public Class 4	Aggregate	Aggregate	Diesel	115.4849032	3868.378192	0.453927336	8.522020782
Riverside	2022	T6 Public Class 5	Aggregate	Aggregate	Diesel	158.8393829	5838.881531	0.686744562	8.502261034
Riverside	2022	T6 Public Class 6	Aggregate	Aggregate	Diesel	249.3339481	8274.454229	0.976381981	8.474607672
Riverside	2022	T6 Public Class 7	Aggregate	Aggregate	Diesel	390.9998527	16637.94328	1.927972726	8.629760712
Riverside	2022	T6 Utility Class 5	Aggregate	Aggregate	Diesel	209.9870732	8558.803222	0.93309666	9.172472255
Riverside	2022	T6 Utility Class 6	Aggregate	Aggregate	Diesel	39.86590606	1608.118137	0.175289881	9.174050034
Riverside	2022	T6 Utility Class 7	Aggregate	Aggregate	Diesel	45.29789912	2233.061565	0.242447	9.210514332
Riverside	2022	T6T5	Aggregate	Aggregate	Gasoline	1966.180451	98100.58886	19.41962419	5.051621384
Riverside	2022	T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	5206.882173	1095323.97	181.6804392	6.028849199
Riverside	2022	T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	4696.272401	1300712.472	216.104369	6.018908724
Riverside	2022	T7 NOOS Class 8	Aggregate	Aggregate	Diesel	1954.930231	472444.866	78.85192679	5.991544978
Riverside	2022	T7 POLA Class 8	Aggregate	Aggregate	Diesel	2459.996522	321415.4571	53.46728429	6.011441603
Riverside	2022	T7 Public Class 8	Aggregate	Aggregate	Diesel	784.932784	31300.93516	5.422416097	5.772507053
Riverside	2022	T7 Single Concrete/Transit Mix Class 8	Aggregate	Aggregate	Diesel	1255.758902	89028.78422	14.92594238	5.964701053
Riverside	2022	T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1152.416374	71342.73176	12.03971461	5.925616517
Riverside	2022	T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1300.273789	78694.87238	13.18149521	5.970102111
Riverside	2022	T7 SWCV Class 8	Aggregate	Aggregate	Diesel	86.49291113	5615.46853	2.076624054	2.704133432
Riverside	2022	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	5327.039618	449395.1129	73.51608191	6.112881716
Riverside	2022	T7 Utility Class 8	Aggregate	Aggregate	Diesel	143.8060574	6791.312355	1.114604618	6.093023703
Riverside	2022	T7IS	Aggregate	Aggregate	Gasoline	13.99919805	814.1099593	0.222520106	3.658590568
Riverside	2022	UBUS	Aggregate	Aggregate	Gasoline	145.6342999	18438.99521	3.273571136	5.632685054
Riverside	2022	UBUS	Aggregate	Aggregate	Diesel	0.3117338	30.10971099	0.002674589	11.2576967

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Riverside

Calendar Year: 2040

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	MPG (Derived)
Riverside	2040	All Other Buses	Aggregate	Aggregate	Diesel	255.2160274	13001.985	1.233482034	10.5408791
Riverside	2040	LDA	Aggregate	Aggregate	Gasoline	655711.4109	26596413.01	772.8533566	34.4132723
Riverside	2040	LDA	Aggregate	Aggregate	Diesel	521.1608025	17786.59318	0.3474007	51.19907117
Riverside	2040	LDT1	Aggregate	Aggregate	Gasoline	48889.87352	1869688.222	63.9341365	29.24397394
Riverside	2040	LDT1	Aggregate	Aggregate	Diesel	0.475336673	19.89219725	0.000701979	28.33730413
Riverside	2040	LDT2	Aggregate	Aggregate	Gasoline	375573.3925	15298599.53	546.9812666	27.96914714
Riverside	2040	LDT2	Aggregate	Aggregate	Diesel	1405.091633	57913.23102	1.559127657	37.1446371
Riverside	2040	LHD1	Aggregate	Aggregate	Gasoline	18757.80526	644187.6209	38.21770284	16.85573891
Riverside	2040	LHD1	Aggregate	Aggregate	Diesel	13876.69728	453073.0332	20.92508779	20.92508779
Riverside	2040	LHD2	Aggregate	Aggregate	Gasoline	2420.793073	78846.47185	5.312660544	14.84124032
Riverside	2040	LHD2	Aggregate	Aggregate	Diesel	6872.323772	215264.0386	11.69615793	18.40467954
Riverside	2040	MCY	Aggregate	Aggregate	Gasoline	32902.60771	181877.3794	4.187431115	43.43411853
Riverside	2040	MDV	Aggregate	Aggregate	Gasoline	232009.4974	9090304.297	395.2282756	23.0013653
Riverside	2040	MDV	Aggregate	Aggregate	Diesel	2650.579898	101959.1241	3.636024277	28.04137605
Riverside	2040	MH	Aggregate	Aggregate	Gasoline	2796.997408	26394.28376	5.418346538	4.871280117
Riverside	2040	MH	Aggregate	Aggregate	Diesel	1946.052442	15865.56039	1.539396702	10.30634947
Riverside	2040	Motor Coach	Aggregate	Aggregate	Diesel	67.56114955	8483.494485	1.324443437	6.405327889
Riverside	2040	OBUS	Aggregate	Aggregate	Gasoline	313.0033865	9821.930628	1.702288847	5.79837855
Riverside	2040	PTO	Aggregate	Aggregate	Diesel	0	37529.16914	6.595789574	5.689867562
Riverside	2040	SBUS	Aggregate	Aggregate	Gasoline	355.7695047	16425.12966	1.747222072	9.400710945
Riverside	2040	SBUS	Aggregate	Aggregate	Diesel	270.7839676	5529.913973	0.690190992	8.012150309
Riverside	2040	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	9.948723176	687.6253342	0.068679041	10.01215684
Riverside	2040	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	12.30671682	947.5841114	0.094664086	10.00996422
Riverside	2040	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	54.77873709	2443.740169	0.244412985	9.998405656
Riverside	2040	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	123.897688	24993.05127	2.186672917	11.42971638
Riverside	2040	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	455.8411143	14798.95802	1.546930003	9.624203585
Riverside	2040	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	435.0222922	14119.86431	1.481222389	9.532575535
Riverside	2040	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	1248.503044	40524.23383	4.230660031	9.578702504
Riverside	2040	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	247.9124542	12385.6076	1.292002356	9.586366107
Riverside	2040	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	1718.029197	65410.53102	6.796461696	9.624203585
Riverside	2040	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	3938.580078	150870.421	15.67660495	9.623921852
Riverside	2040	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	2849.754697	109318.5842	11.34006415	9.640032254
Riverside	2040	T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	1717.959033	65189.07122	6.82400491	9.552905087
Riverside	2040	T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	19.68100956	889.1449615	0.091520575	9.715246684
Riverside	2040	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	598.0286343	33529.90614	3.163388088	10.59936536
Riverside	2040	T6 OOS Class 4	Aggregate	Aggregate	Diesel	11.46535686	836.5410653	0.077956239	10.73090597
Riverside	2040	T6 OOS Class 5	Aggregate	Aggregate	Diesel	14.13688978	1147.583912	0.106992029	10.72588235
Riverside	2040	T6 OOS Class 6	Aggregate	Aggregate	Diesel	63.40695332	2998.669593	0.279506185	10.72845522
Riverside	2040	T6 OOS Class 7	Aggregate	Aggregate	Diesel	78.66278504	21804.05676	1.824529594	11.95050868
Riverside	2040	T6 Public Class 4	Aggregate	Aggregate	Diesel	75.89086181	2611.463168	0.284092051	9.192313415
Riverside	2040	T6 Public Class 5	Aggregate	Aggregate	Diesel	125.5099309	4314.067948	0.472420476	9.131839472
Riverside	2040	T6 Public Class 6	Aggregate	Aggregate	Diesel	164.319314	5667.61914	0.614422216	9.224306991
Riverside	2040	T6 Public Class 7	Aggregate	Aggregate	Diesel	286.940196	11885.2481	1.254640423	9.473031378
Riverside	2040	T6 Utility Class 5	Aggregate	Aggregate	Diesel	121.5874433	4776.992286	0.482929818	9.891690481
Riverside	2040	T6 Utility Class 6	Aggregate	Aggregate	Diesel	22.98042109	902.9591838	0.091255758	9.894818764
Riverside	2040	T6 Utility Class 7	Aggregate	Aggregate	Diesel	25.42421155	1211.528377	0.121644428	9.959587909
Riverside	2040	T6TS	Aggregate	Aggregate	Gasoline	1578.313865	75769.67527	12.95731675	5.847636259
Riverside	2040	T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	6690.719701	1405581.307	189.464949	7.418687806
Riverside	2040	T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	7320.126199	2121715.218	271.9359599	7.80226057
Riverside	2040	T7 NOOS Class 8	Aggregate	Aggregate	Diesel	3159.305226	770649.5349	99.89156107	7.714861262
Riverside	2040	T7 POLA Class 8	Aggregate	Aggregate	Diesel	2444.957788	472677.4546	67.12554572	7.041692541
Riverside	2040	T7 Public Class 8	Aggregate	Aggregate	Diesel	398.8519	15451.27859	2.46219955	6.275396561
Riverside	2040	T7 Single Concrete/Transit Mix Class 8	Aggregate	Aggregate	Diesel	745.1321853	47456.2136	7.007274518	6.772421072
Riverside	2040	T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1024.409158	49636.67585	7.726543679	6.424175921
Riverside	2040	T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1545.272659	78194.56664	12.04645356	6.491086047
Riverside	2040	T7 SWCV Class 8	Aggregate	Aggregate	Diesel	15.61070008	1012.777357	0.346820816	2.920174655
Riverside	2040	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	9643.428073	631201.1134	87.73838597	7.194127251
Riverside	2040	T7 Utility Class 8	Aggregate	Aggregate	Diesel	124.9091554	5106.596571	0.773568249	6.601352344
Riverside	2040	T7IS	Aggregate	Aggregate	Gasoline	2.667719027	269.2894132	0.054672879	4.925466076
Riverside	2040	UBUS	Aggregate	Aggregate	Gasoline	101.620965	9388.478738	0.589083177	15.9374416