Appendix B: Air Quality Report

City of San Jacinto

2040 General Plan Environmental Impact Report - Air Quality

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

TABLE OF CONTENTS

LIST OF APPENDICES

LIST OF TABLES

1.0 EXISTING SETTING

The City of San Jacinto is part of the South Coast Air Basin (SCAB) that includes all of Orange County as well as the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The South Coast Air Basin is located on a coastal plain with connecting broad valleys and low hills to the east. Regionally, the South Coast Air Basin is bounded by the Pacific Ocean to the southwest and high mountains to the east forming the inland perimeter.

1.1 LOCAL CLIMATE AND METEORROLOGY

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the region form natural horizontal barriers to the dispersion of air contaminants. Air pollution created in the coastal areas and around the Los Angeles area is transported inland until it reaches the mountains where the combination of mountains and inversion layers generally prevent further dispersion. This poor ventilation results in a gradual degradation of air quality from the coastal areas to inland areas. Air stagnation may occur during the early evening and early morning periods of transition between day and nighttime flows. The region also experiences periods of hot, dry winds from the desert, known as Santa Ana winds. If the Santa Ana winds are strong, they can surpass the sea breeze, which blows from the ocean to the land, and carry the suspended dust and pollutants out to the ocean. If the winds are weak, they are opposed by the sea breeze and cause stagnation, resulting in high pollution events.

The annual average temperature varies little throughout much of the basin, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas where the project site is located. The majority of the annual rainfall in the basin occurs between November and April. Summer rainfall is minimal and is generally limited to scattered thunderstorms in the coastal regions and slightly heavier showers in the eastern portion of the basin along the coastal side of the mountains. Year-to-year patterns in rainfall are unpredictable because of fluctuations in the weather.

Temperature inversions limit the vertical depth through which pollution can be mixed. Among the most common temperature inversions in the basin are radiation inversions, which form on clear winter nights when cold air off mountains sink to the valley floor while the air aloft over the valley remains warm. These inversions, in conjunction with calm winds, trap pollutants near the source. Other types of temperature inversions that affect the basin include marine, subsidence, and high-pressure inversions.

Summers are often periods of hazy visibility and occasionally unhealthful air. Strong temperature inversions may occur that limit the vertical depth through which air pollution can be dispersed. Air pollutants concentrate because they cannot rise through the inversion layer and disperse. These inversions are more common and persistent during the summer months. Over time, sunlight produces photochemical reactions within this inversion layer that creates ozone, a particularly harmful air pollutant. Occasionally, strong thermal convections occur which allows the air pollutants to rise high enough to pass over the mountains and ultimately dilute the smog cloudtrap pollutants such as automobile exhaust near their source. While these inversions may lead to air pollution “hot spots” in heavily developed coastal areas of the basin, there is not enough traffic in inland valleys to cause any winter air pollution problems.

Despite light wind conditions, especially at night and in the early morning, winter is generally a period of good air quality in the project vicinity.

In the winter, light nocturnal winds result mainly from the drainage of cool air off of the mountains toward the valley floor while the air aloft over the valley remains warm. This forms a type of inversion known as a radiation inversion. Such winds are characterized by stagnation and poor local mixing and trap pollutants such as automobile exhaust near their source. While these inversions may lead to air pollution "hot spots" in heavily developed coastal areas of the basin, there is not enough traffic to cause any winter air pollution problems. Despite light wind conditions, especially at night and in the early morning, winter is generally a period of good air quality in the project vicinity.

The temperature and precipitation levels for the City of Hemet, closest station with data, are in Table 1. Table 1 shows that August is typically the warmest month and December is typically the coolest month. Rainfall in the project area varies considerably in both time and space. Almost all the annual rainfall comes from the fringes of mid-latitude storms from late November to early April, with summers being almost completely dry.

Table 1: Meteorological Summary[1]

Month	Temperature (˚F)		Average Precipitation (inches)
	Average High	Average Low	
January	69.2	38.0	69.2
February	67.9	39.1	67.9
March	72.7	41.6	72.7
April	77.0	44.1	77.0
May	85.3	49.8	85.3
June	91.8	54.0	91.8
July	99.0	59.3	99.0
August	99.1	60.0	99.1
September	94.6	56.5	94.6
October	84.8	49.7	84.8
November	72.9	41.0	72.9
December	68.4	37.7	68.4
Annual Average	**82.2**	**47.7**	**82.2**

Notes:

[1] Source: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca3896

1.2 CRITERIA POLLUTANTS

All criteria pollutants can have human health and environmental effects at certain concentrations. The United States Environmental Protection Agency (USEPA) uses six "criteria pollutants" as indicators of air quality, and has established for each of them a maximum concentration above which adverse effects on human health may occur. These threshold concentrations are called National Ambient Air Quality Standards (NAAQS). In addition, California establishes ambient air quality standards, called California Ambient Air Quality Standards (CAAQS).

The ambient air quality standards for the six criteria pollutants (as shown in Table 2) are set for public health and the environment within an adequate margin of safety (as provided under Section 109 of the Federal Clean Air Act). Epidemiological, controlled human exposure, and toxicology studies evaluate potential health and environmental effects of criteria pollutants, and form the scientific basis for new and revised ambient air quality standards. Principal characteristics and possible health and environmental effects from exposure to the six primary criteria pollutants generated by the Project are discussed below.

Ozone (O3) is a photochemical oxidant and the major component of smog. While ozone in the upper atmosphere is beneficial to life by shielding the earth from harmful ultraviolet radiation from the sun, high concentrations of ozone at ground level are a major health and environmental concern. Ozone is not emitted directly into the air but is formed through complex chemical reactions between precursor emissions of volatile organic compounds (VOC) and oxides of nitrogen (NOx) in the presence of sunlight. These reactions are stimulated by sunlight and temperature so that peak ozone levels occur typically during the warmer times of the year. Both VOCs and NOx are emitted by transportation and industrial sources. VOCs are emitted from sources as diverse as autos, chemical manufacturing, dry cleaners, paint shops and other sources using solvents.

The reactivity of ozone causes health problems because it damages lung tissue, reduces lung function and sensitizes the lungs to other irritants. Scientific evidence indicates that ambient levels of ozone not only affect people with impaired respiratory systems, such as asthmatics, but healthy adults and children as well. Exposure to ozone for several hours at relatively low concentrations has been found to significantly reduce lung function and induce respiratory inflammation in normal, healthy people during exercise. This decrease in lung function generally is accompanied by symptoms including chest pain, coughing, sneezing and pulmonary congestion.

Studies show associations between short-term ozone exposure and non-accidental mortality, including deaths from respiratory issues. Studies also suggest long-term exposure to ozone may increase the risk of respiratory-related deaths (U.S. Environmental Protection Agency 2019a). The concentration of ozone at which health effects are observed depends on an individual's sensitivity, level of exertion (i.e., breathing rate), and duration of exposure. Studies show large individual differences in the intensity of symptomatic responses, with one study finding no symptoms to the least responsive individual after a 2-hour exposure to 400 parts per billion of ozone and a 50 percent decrement in forced airway volume in the most responsive individual. Although the results vary, evidence suggest that sensitive populations (e.g., asthmatics) may be affected on days when the 8-hour maximum ozone concentration reaches 80 parts per billion (U.S. Environmental Protection Agency 2019b). The average background level of ozone in the

California and Nevada is approximately 48.3 parts per billion, which represents approximately 77 percent of the total ozone in the western region of the U.S. (NASA, 2015).

In addition to human health effect, ozone has been tied to crop damage, typically in the form of stunted growth, leaf discoloration, cell damage, and premature death. Ozone can also act as a corrosive and oxidant, resulting in property damage such as the degradation of rubber products and other materials. Ozone concentrations tend to be highest in summer and lowest in winter.

Over long-term timeframes, ozone concentrations in California have decreased (California Air Resources Board, 2019b). On a more local level, data from the California Resources Board shows an approximately 47 percent reduction in ozone levels in the SCAB region from 1992 to 2011 (California Air Resources Board, 2014). The California Air Resources Board (CARB) also forecasts that emissions of VOCs and NOx in the SCAB will continue to reduce over time due to an assumption of stricter vehicle standards and increased efficiency (NOx is projected to be reduced from 451 tons/day in 2015 to 257 tons/day in 2035, and VOCs are projected to decrease from 429 tons/day in 2015 to 391 tons/day in 2035) (CARB, 2013).

Carbon monoxide (CO) is a colorless, odorless and poisonous gas produced by incomplete burning of carbon in fuels. Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects (California Air Resources Board, 2019c). Exposure to CO at high concentrations can also cause fatigue, headaches, confusion, dizziness, and chest pain. There are no ecological or environmental effects to ambient CO (California Air Resources Board, 2019d).

Very high levels of CO are not likely to occur outdoors. However, when CO levels are elevated outdoors, they can be of particular concern for people with some types of heart disease. These people already have a reduced ability for getting oxygenated blood to their hearts in situations where the heart needs more oxygen than usual. They are especially vulnerable to the effects of CO when exercising or under increased stress. In these situations, short-term exposure to elevated CO may result in reduced oxygen to the heart accompanied by chest pain also known as angina (USEPA, 2016). Such acute effects may occur under current ambient conditions for some sensitive individuals, while increases in ambient CO levels increases the risk of such incidences.

CO concentrations tend to be highest in fall and winter and lowest in spring and summer. Over the long-term, CO concentrations have decreased throughout the United States. Average concentrations of CO have reduced from approximately 333 parts per billion in 2000 to approximately 132 parts per billion in 2017, in California and Nevada (USEPA, 2018).

Nitrogen dioxide (NO2) is a brownish, highly reactive gas that is present in all urban atmospheres. The main effect of increased NO2 is the increased likelihood of respiratory problems. Under ambient conditions, NO2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to

respiratory infections. Nitrogen oxides are an important precursor both to ozone and acid rain, and may affect both terrestrial and aquatic ecosystems. Longer exposures to elevated concentrations of NO2 may contribute to the development of asthma and potentially increase susceptibility to respiratory infections. People with asthma, as well as children and the elderly are generally at greater risk for the health effects of NO2.

The major mechanism for the formation of NO2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NOx). NOx plays a major role, together with VOCs, in the atmospheric reactions that produce ozone. NOx forms when fuel is burned at high temperatures. The two major emission sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

NO2 concentrations tend to be highest in winter and lowest in summer. Over the long-term, nitrogen dioxide concentrations have generally been decreasing throughout the United States (USEPA, 2018). Average concentrations of NO2 have reduced from approximately 69 parts per billion in 2000 to approximately 48 parts per billion in 2017, in California and Nevada (i.e. the West region, as defined by the USEPA) (USEPA, 2018). Data from the CARB shows an approximately 51 percent reduction in NO2 emissions in the SCAB region from 1992 to 2011 (California Air Resources Board, 2014).

Sulfur dioxide (SO2) is one of the multiple gaseous oxidized sulfur species and is formed during the combustion of fuels containing sulfur, primarily coal and oil. The largest anthropogenic source of SO2 emissions in the U.S. is fossil fuel combustion at electric utilities and other industrial facilities. SO2 is also emitted from certain manufacturing processes and mobile sources, including locomotives, large ships, and construction equipment.

SO2 affects breathing and may aggravate existing respiratory and cardiovascular disease in high doses. Sensitive populations include asthmatics, individuals with bronchitis or emphysema, children and the elderly. SO2 is also a primary contributor to acid deposition, or acid rain, which causes acidification of lakes and streams and can damage trees, crops, historic buildings and statues. In addition, sulfur compounds in the air contribute to visibility impairment in large parts of the country. This is especially noticeable in national parks. Ambient SO2 results largely from stationary sources such as coal and oil combustion, steel mills, refineries, pulp and paper mills and from nonferrous smelters.

Short-term exposure to ambient SO2 has been associated with various adverse health effects. Multiple human clinical studies, epidemiological studies, and toxicological studies support a causal relationship between short-term exposure to ambient SO2 and respiratory morbidity. The observed health effects include decreased lung function, respiratory symptoms, and increased emergency department visits and hospitalizations for all respiratory causes. These studies further suggest that people with asthma are potentially susceptible or vulnerable to these health effects. In addition, SO2 reacts with other air pollutants to form sulfate particles, which are constituents of fine particulate matter (PM2.5). Inhalation exposure to PM2.5 has been associated with various cardiovascular and respiratory health effects (USEPA, 2017). Increased ambient SO2 levels would lead to increased risk of such effects.

SO2 emissions that lead to high concentrations of SO2 in the air generally also lead to the formation of other sulfur oxides (SOx). SOx can react with other compounds in the atmosphere to form small particles.

These particles contribute to particulate matter (PM) pollution. Small particles may penetrate deeply into the lungs and in sufficient quantity can contribute to health problems.

Over the long-term, sulfur dioxide concentrations have decreased throughout the United States (USEPA, 2018). Average concentrations of SO2 have reduced from approximately 17.6 parts per billion in 2000 to approximately 6.2 parts per billion in 2017 at monitoring sites in California and Nevada (i.e. the West region, as defined by the USEPA) (USEPA, 2018).

Particulate matter (PM) includes dust, dirt, soot, smoke and liquid droplets directly emitted into the air by sources such as factories, power plants, cars, construction activity, fires and natural windblown dust. Particles formed in the atmosphere by condensation or the transformation of emitted gases such as SO2 and VOCs are also considered particulate matter. PM is generally categorized based on the diameter of the particulate matter: PM10 is particulate matter 10 micrometers or less in diameter (known as respirable particulate matter), and PM2.5 is particulate matter 2.5 micrometers or less in diameter (known as fine particulate matter).

Based on studies of human populations exposed to high concentrations of particles (sometimes in the presence of SO2) and laboratory studies of animals and humans, there are major effects of concern for human health. These include effects on breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular disease, alterations in the body's defense systems against foreign materials, damage to lung tissue, carcinogenesis and premature death. Small particulate pollution has even health impacts even at very low concentrations – indeed no threshold has been identified below which no damage to health is observed.

Respirable particulate matter (PM10) consists of small particles, less than 10 microns in diameter, of dust, smoke, or droplets of liquid which penetrate the human respiratory system and cause irritation by themselves, or in combination with other gases. Particulate matter is caused primarily by dust from grading and excavation activities, from agricultural uses (as created by soil preparation activities, fertilizer and pesticide spraying, weed burning and animal husbandry), and from motor vehicles, particularly diesel-powered vehicles. PM10 causes a greater health risk than larger particles, since these fine particles can more easily penetrate the defenses of the human respiratory system.

Fine particulate matter (PM2.5) consists of small particles, which are less than 2.5 microns in size. Similar to PM10, these particles are primarily the result of combustion in motor vehicles, particularly diesel engines, as well as from industrial sources and residential/agricultural activities such as burning. It is also formed through the reaction of other pollutants. As with PM10, these particulates can increase the chance of respiratory disease, and cause lung damage and cancer. In 1997, the USEPA created new Federal air quality standards for PM2.5.

The major subgroups of the population that appear to be most sensitive to the effects of particulate matter include individuals with chronic obstructive pulmonary or cardiovascular disease or influenza, asthmatics, the elderly and children. Particulate matter also soils and damages materials, and is a major cause of visibility impairment.

Numerous studies have linked PM exposure to premature death in people with preexisting heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lunch function, and

increased respiratory symptoms. Studies show that every 1 microgram per cubic meter reduction in PM2.5 results in a one percent reduction in mortality rate for individuals over 30 years old (Bay Area Air Quality Management District, 2017). Long-term exposures, such as those experienced by people living for many years in areas with high particle levels, have been associated with problems such as reduced lung function and the development of chronic bronchitis – and even premature death. Additionally, depending on its composition, both PM10 and PM2.5 can also affect water quality and acidity, deplete soil nutrients, damage sensitive forests and crops, affect ecosystem diversity, and contribute to acid rain (U.S. Environmental Protection Agency, 2019c).

PM concentrations tend to be highest in winter and spring and lowest in summer. The CARB identifies that total emissions of PM in the SCAB region have decreased from 88 tons/day in 2000 to 67 tons per day in 2015. Additionally, the CARB forecasts that emissions of PM in the SCAB will remain relatively constant from 2015 to 2035 (increasing from 67 tons per day in 2015 to 71 tons per day in 2035) (CARB, 2013).

Lead (Pb) exposure can occur through multiple pathways, including inhalation of air and ingestion of Pb in food, water, soil or dust. Once taken into the body, lead distributes throughout the body in the blood and is accumulated in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems and the cardiovascular system. Lead exposure also affects the oxygen carrying capacity of the blood. Excessive Pb exposure can cause seizures, mental retardation and/or behavioral disorders. Low doses of Pb can lead to central nervous system damage. Recent studies have also shown that Pb may be a factor in high blood pressure and subsequent heart disease.

Lead is persistent in the environment and can be added to soils and sediments through deposition from sources of lead air pollution. Other sources of lead to ecosystems include direct discharge of waste streams to water bodies and mining. Elevated lead in the environment can result in decreased growth and reproductive rates in plants and animals, and neurological effects in vertebrates.

Lead exposure is typically associated with industrial sources; major sources of lead in the air are ore and metals processing and piston-engine aircraft operating on leaded aviation fuel. Other sources are waste incinerators, utilities, and lead-acid battery manufacturers. The highest air concentrations of lead are usually found near lead smelters. As a result of the USEPA's regulatory efforts, including the removal of lead from motor vehicle gasoline, levels of lead in the air decreased by 98 percent between 1980 and 2014 (USEPA, 2019d). Based on this reduction of lead in the air over this period, and since most new developments to not generate an increase in lead exposure, the health impacts of ambient lead levels are not typically monitored by the CARB.

1.3 TOXIC AIR CONAMINANTS

In addition to the criteria air pollutants listed above, another group of pollutants, commonly referred to as toxic air contaminants (TACs) or hazardous air pollutants can result in health effects that can be quite severe. Many TACs are confirmed or suspected carcinogens or are known or suspected to cause birth defects or neurological damage. Additionally, many TACs can be toxic at very low concentrations. For

some chemicals, such as carcinogens, there are no thresholds below which exposure can be considered risk-free.

It is important to understand that TACs are not considered criteria air pollutants and thus are not specifically addressed through the setting of ambient air quality standards. Instead, the USEPA and CARB regulate hazardous air pollutants (HAPs) and TACs through statutes and regulations that generally require the use of the maximum or best available control technology (MACT and BACT) to limit emissions. MACT and BACT standards, in conjunction with additional rules set forth by the SCAQMD, establish the regulatory framework for regulating TACs. The SCAQMD maintains approximately 23 rules regulating toxics and other non-criteria pollutants.

Industrial facilities and mobile sources are significant sources of TACs. Sources of TACs go beyond industry. Various common urban facilities also produce TAC emissions, such as gasoline stations (benzene), hospitals (ethylene oxide), and dry cleaners (perchloroethylene). Automobile exhaust also contains TACs such as benzene and 1,3-butadiene. Diesel particulate matter has also been identified as a TAC by the CARB. Diesel PM differs from other TACs in that it is not a single substance but rather a complex mixture of hundreds of substances. The SCAQMD research indicates that mobile-source emissions of diesel PM, benzene, and 1,3-butadiene represent a substantial portion of the ambient background risk from TACs in the SCAB.

Sensitive receptors, which include children, the sick, and the elderly, may be especially impacted by TACs. Sensitive receptors located within San Jacinto include: residences, schools, and senior care facilities. However, sources of TACs (such as industrial facilities and gasoline stations) are generally located at a sufficient distance from sensitive receptors that the potential for substantial deleterious health effects to these sensitive receptors from TACs is minimized.

Examples of current SCAQMD Rules relating to TACs are as follows: SCAQMD Rule 1401 requires a new source review of TACs from new permit units, relocations, or modifications to existing permit units which emit TACs. Rule 1401.1 provides requirements for new and relocated TAC-emitting facilities near schools. Rule 1403 provides work practice requirements to limit asbestos emissions from building demolition and renovation activities. Rule 1404 reduces the level of hexavalent chromium emissions allowed from cooling towers. Rule 1469-1 provides limitations on spraying operations using coatings containing chromium. Additionally, Rule 1472 provides requirements for facilities with multiple stationary emergency standby diesel-fueled internal combustion engines.

1.3.1 DIESEL EXHAUST

According to the California Almanac of Emissions and Air Quality, the majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from the exhaust of diesel-fueled engines, i.e., diesel particulate matter (DPM). DPM differs from other TACs in that it is not a single substance, but rather a complex mixture of hundreds of substances.

Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. The gas phase is composed of many of the urban hazardous air pollutants, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde and polycyclic aromatic hydrocarbons. The particle phase is also composed of many different types of particles by size or composition. Fine and ultra-fine diesel

particulates are of the greatest health concern, and may be composed of elemental carbon with adsorbed compounds such as organic compounds, sulfate, nitrate, metals and other trace elements. Diesel exhaust is emitted from a broad range of diesel engines; the on-road diesel engines of trucks, buses and cars and the off-road diesel engines that include locomotives, marine vessels and heavy-duty equipment. Although DPM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present.

The most common exposure to DPM is breathing air that contains diesel exhaust. The fine and ultra-fine particles are respirable (similar to PM2.5), which means that they can avoid many of the human respiratory system defense mechanisms and enter deeply into the lung. Exposure to DPM comes from both on-road and off-road engine exhaust that is either directly emitted from the engines or lingering in the atmosphere.

1.3.2 GASOLINE EXHAUST

Similar to diesel exhaust, exhaust from gasoline-fueled engines is composed of two phases, gas and particle, both of which contribute to health risks. The gas phase is composed of the same hazardous air pollutants, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde and polycyclic aromatic hydrocarbons. The particle phase is also composed of many different types of particles by size or composition. Fine and ultra-fine diesel particulates are of the greatest health concern, and may be composed of elemental carbon with adsorbed compounds such as organic compounds, sulfate, nitrate, metals and other trace elements. Gasoline exhaust is primarily emitted from light-duty passenger vehicles. The compounds in the gas and particles phases can cause health effects from short and long-term exposures.

1.3.3 VISIBILITY REDUCING PARTICLES

Visibility-reducing particles are any particles in the atmosphere that obstruct the range of visibility by creating haze. These particles vary in shape, size and chemical composition, and come from a variety of natural and manmade sources including windblown metals, soil, dust, salt, and soot. Other haze-causing particles are formed in the air from gaseous pollutant (e.g., sulfates, nitrates, organic carbon particles) which are the major constituents of fine PM, such as PM2.5 and PM10, and are caused from the combustion of fuel. The CARB's standard for visibility reducing particles is not based on health effects, but rather on welfare effects, such as reduced visibility and damage to materials, plants, forests, and ecosystems.

1.4 ODORS

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability to smell minute quantities of specific substances; others may not have the same sensitivity but may have

sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another.

It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

1.5 SENSITIVE RECEPTORS

Sensitive receptors are considered land uses or other types of population groups that are more sensitive to air pollution than others due to their exposure. Sensitive population groups include children, the elderly, the acutely and chronically ill, and those with cardio-respiratory diseases. For CEQA purposes, a sensitive receptor would be a location where a sensitive individual could remain for 24-hours or longer, such as residencies, hospitals, and schools (etc).

Because the proposed project is a planning document that does not include exact locations, sizes, or land use type for any individual projects that will occur within the City under the General Plan, there are no specific sensitive locations identified with respect to the proposed project. As a conservative estimate of impacts, sensitive receptors are anticipated to be located directly adjacent to new development.

1.6 AMBIENT AIR QUALITY

1.6.1 ATTAINMENT STATUS

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per

year. In contrast, the federal annual $PM_{2.5}$ standard is met if the three-year average of the annual average $PM_{2.5}$ concentration is less than or equal to the standard. Table 2 lists the attainment status for the criteria pollutants in the basin.

Table 2: South Coast Air Basin Attainment Status

Pollutant	Standard[1]	Averaging Time	Designation[2]	Attainment Date[3]
1-Hour Ozone	NAAQS	1979 1-Hour (0.12 ppm)	Nonattainment (Extreme)	2/6/2023 (not attained)[4]
	CAAQS	1-Hour (0.09 ppm)	Nonattainment	N/A
8-Hour Ozone[5]	NAAQS	1997 8-Hour (0.08 ppm)	Nonattainment (Extreme)	6/15/2024
	NAAQS	2008 8-Hour (0.075 ppm)	Nonattainment (Extreme)	7/20/2032
	NAAQS	2015 8-Hour (0.070 ppm)	Nonattainment (Extreme)	8/3/2038
	CAAQS	8-Hour (0.070 ppm)	Nonattainment	Beyond 2032
CO	NAAQS	1-Hour (35 ppm)	Attainment (Maintenance)	6/11/2007 (attained)
	CAAQS	8-Hour (9 ppm)	Attainment	6/11/2007 (attained)
NO_2 [6]	NAAQS	1-Hour (0.1 ppm)	Unclassifiable/Attainment	N/A (attained)
	NAAQS	Annual (0.053 ppm)	Attainment (Maintenance)	9/22/1998 (attained)
	CAAQS	1-hour (0.18 ppm) Annual (0.030 ppm)	Attainment	-
SO_2[7]	NAAQS	1-Hour (75 ppb)	Designations Pending (expect Uncl./Attainment)	N/A (attained)
	NAAQS	24-Hour (0.14 ppm) Annual (0.03 ppm)	Unclassifiable/Attainment	3/19/1979 (attained)
PM10	NAAQS	1987 24-Hour (150 µg/m^3)	Attainment (Maintenance)[8]	7/26/2013 (attained)
	CAAQS	24-Hour (50 µg/m^3) Annual (20 µg/m^3)	Nonattainment	N/A
PM2.5 [9]	NAAQS	2006 24-Hour (35 µg/m^3)	Nonattainment (Serious)	12/31/2019
	NAAQS	1997 Annual (15.0 µg/m^3)	Attainment	8/24/2016
	NAAQS	2021 Annual (12.0 µg/m^3)	Nonattainment (Serious)	12/31/2025
	CAAQS	Annual (12.0 µg/m^3)	Nonattainment	N/A

Lead	NAAQS	3-Months Rolling (0.15 µg/m^3)	Nonattainment (Partial)[10]	12/31/2015
Notes:				
Source: http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf				
[1] NAAQS = National Ambient Air Quality Standards, CAAQS = California Ambient Air Quality Standards				
[2] U.S. EPA often only declares Nonattainment areas; everywhere else is listed as Unclassifiable/Attainment or Unclassifiable.				
[3] A design value below the NAAQS for data through the full year or smog season prior to the attainment date is typically required for attainment demonstration.				
[4] 1-hour O3 standard (0.12 ppm) was revoked, effective June 15, 2005 ; however, the Basin has not attained this standard based on 2008-2010 data and is still subject to anti-backsliding requirements.				
[5] 1997 8-hour O3 standard (0.08 ppm) was reduced (0.075 ppm), effective May 27, 2008; the revoked 1997 O3 standard is still subject to anti-backsliding requirements.				
[6] New NO2 1-hour standard, effective August 2, 2010; attainment designations January 20, 2012; annual NO2 standard retained.				
[7] The 1971 annual and 24-hour SO2 standards were revoked, effective August 23, 2010; however, these 1971 standards will remain in effect until one year after U.S. EPA promulgates area designations for the 2010 SO2 1-hour standard. Area designations are still pending, with Basin expected to be designated Unclassifiable /Attainment.				
[8] Annual PM10 standard was revoked, effective December 18, 2006; 24-hour PM10 NAAQS deadline was 12/31/2006; SCAQMD request for attainment redesignation and PM10 maintenance plan was approved by U.S. EPA on June 26, 2013, effective July 26, 2013.				
[9] Attainment deadline for the 2006 24-Hour PM2.5 NAAQS (designation effective December 14, 2009) is December 31, 2019 (end of the 10th calendar year after effective date of designations for Serious nonattainment areas). Annual PM2.5 standard was revised on January 15, 2013, effective March 18, 2013, from 15 to 12 µg/m3. Designations effective April 15, 2015, so Serious area attainment deadline is December 31, 2025.				
[10] Partial Nonattainment designation – Los Angeles County portion of Basin only for near-source monitors. Expect redesignation to attainment based on current monitoring data.				

1.6.2 RIVERSIDE COUNTY MONITORING

The SCAQMD is divided into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The City of San Jacinto is in the Hemet-San Jacinto Valley (Area 28). The nearest air monitoring station is the Banning Station. The Banning Station is located approximately 11 miles northeast of the City of San Jacinto at 200 S Hathaway Street, Banning; however this location does not provide all ambient weather data. Therefore, additional data was pulled from the SCAQMD historical data for the San Gorgonio Pass (Area 29) (SCAQMD historical data does not have Hemet-San Jacinto Valley SRA 28 listed; therefore, the next closest SRA was utilized) for both sulfur dioxide and carbon monoxide to provide the existing levels. Table 3 presents the monitored pollutant levels within the vicinity. However, it should be noted that due to the air monitoring station distance from the City of San Jacinto, recorded air pollution levels at the air monitoring station reflect with varying degrees of accuracy, local air quality conditions at the project site.

<Table 3, next page>

Table 3: Local Area Air Quality Levels

Pollutant (Standard)[2]	Year		
	2018	2019	2020
Ozone:			
Maximum 1-Hour Concentration (ppm)	0.119	0.119	0.150
Days > CAAQS (0.09 ppm)	**33**	**24**	**29**
Maximum 8-Hour Concentration (ppm)	0.106	0.096	0.115
Days > NAAQS (0.07 ppm)	**69**	**59**	**68**
Days > CAAQS (0.070 ppm)	**69**	**62**	**71**
Carbon Monoxide:			
Maximum 1-Hour Concentration (ppm)	*	*	*
Days > NAAQS (20 ppm)	0	0	0
Maximum 8-Hour Concentration (ppm)	*	*	*
Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide:			
Maximum 1-Hour Concentration (ppm)	0.051	0.056	0.051
Days > NAAQS (0.25 ppm)	0	0	0
Sulfur Dioxide:			
Maximum 1-Hour Concentration (ppm)	*	*	*
Days > CAAQS (0.25 ppm)	0	0	0
Inhalable Particulates (PM10):			
Maximum 24-Hour Concentration (ug/m^3)	39.3	63.8	69.3
Days > NAAQS (150 ug/m^3)	0	0	0
Days > CAAQS (50 ug/m^3)	0	**2**	1
Annual Average (ug/m^3)	20.1	17.7	21.2
Annual > NAAQS (50 ug/m^3)	No	No	No
Annual > CAAQS (20 ug/m^3)	**Yes**	No	**Yes**
Ultra-Fine Particulates (PM2.5):			
Maximum 24-Hour Concentration (ug/m^3)	32.0	23.4	46.7
Days > NAAQS (35 ug/m^3)	*	*	*
Annual Average (ug/m^3)	*	9.5	10.5
Annual > NAAQS (15 ug/m3)	*	No	No
Annual > CAAQS (12 ug/m^3)	*	No	No

[1] Source: obtained from https://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year and /or https://www.arb.ca.gov/adam/topfour/topfour1.php

[2] CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million

[3] No data available.

The monitoring data presented in Table 3 shows that ozone and particulate matter (PM10) are the air pollutants of primary concern in the project area, which are detailed below.

Ozone

During the 2018 to 2020 monitoring period, the State 1-hour concentration standard for ozone has been exceeded between 24 and 33 days each year at the Banning Station. The State 8-hour ozone standard has been exceeded between 62 and 71 days each year over the past three years at the Banning Station. The Federal 8-hour ozone standard has been exceeded between 59 and 69 days each year over the past three years at the Banning Station.

Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO_2, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The San Gorgonio Pass Area did not record an exceedance of the state or federal 1-hour or 8-hour CO standards for the last three years.

Nitrogen Dioxide

The Banning Station did not record an exceedance of the State or Federal NO_2 standards for the last three years.

Sulfur Dioxide

The San Gorgonio Pass Area did not record an exceedance of the State SO_2 standards for the last three years.

Particulate Matter

During the 2018 to 2020 monitoring period, the State 24-hour concentration standard for PM10 was exceeded for two days in 2019 and one day in 2020 at the Banning Station. Over the same time period, the Federal 24-hour and annual standards for PM10 have not been exceeded at the Banning Station.

During the 2018 to 2020 monitoring period, there was insufficient data for the Federal 24-hour standard for PM2.5 at the Banning Station.

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

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: 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 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 (with an adequate margin of safety, including for sensitive populations such as children, the elderly, and individuals suffering from respiratory diseases), and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

NAAQS standards define clean air and represent the maximum amount of pollution that can be present in outdoor air without any harmful effects on people and the environment. Existing violations of the ozone and $PM_{2.5}$ ambient air quality standards indicate that certain individuals exposed to these pollutants may experience certain health effects, including increased incidence of cardiovascular and respiratory ailments.

NAAQS standards have been designed to accurately reflect the latest scientific knowledge and are reviewed every five years by a Clean Air Scientific Advisory Committee (CASAC), consisting of seven members appointed by the USEPA administrator. Reviewing NAAQS is a lengthy undertaking and includes the following major phases: Planning, Integrated Science Assessment (ISA), Risk/Exposure Assessment (REA), Policy Assessment (PA), and Rulemaking. The process starts with a comprehensive review of the relevant scientific literature. The literature is summarized and conclusions are presented in the ISA. Based on the ISA, USEPA staff perform a risk and exposure assessment, which is summarized in the REA document. The third document, the PA, integrates the findings and conclusions of the ISA and REA into a policy context, and provides lines of reasoning that could be used to support retention or revision of the existing NAAQS, as well as several alternative standards that could be supported by the review findings. Each of these three documents is released for public comment and public peer review by the CASAC. Members of CASAC are appointed by the USEPA Administrator for their expertise in one or more of the subject areas covered in the ISA. The committee's role is to peer review the NAAQS documents, ensure that they reflect the thinking of the scientific community, and advise the Administrator on the technical and scientific aspects of standard setting. Each document goes through two to three drafts before CASAC deems it to be final.

Although there is some variability among the health effects of the NAAQS pollutants, each has been linked to multiple adverse health effects including, among others, premature death, hospitalizations and

emergency department visits for exacerbated chronic disease, and increased symptoms such as coughing and wheezing. NAAQS standards were last revised for each of the six criteria pollutants as listed below, with detail on what aspects of NAAQS changed during the most recent update:

- Ozone: On October 1, 2015, the U.S. EPA lowered the national eight-hour standard from 0.075 ppm to 0.070 ppm, providing for a more stringent standard consistent with the current California state standard.
- CO: In 2011, the primary standards were retained from the original 1971 level, without revision. The secondary standards were revoked in 1985.
- NO_2: The national NO_2 standard was most recently revised in 2010 following an exhaustive review of new literature pointed to evidence for adverse effects in asthmatics at lower NO_2 concentrations than the existing national standard.
- SO_2: On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99^{th} percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb.
- PM: the national annual average $PM_{2.5}$ standard was most recently revised in 2012 following an exhaustive review of new literature pointed to evidence for increased risk of premature mortality at lower $PM_{2.5}$ concentrations than the existing standard.
- Lead: The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. In 2016, the primary and secondary standards were retained.

The law recognizes the importance for each state to locally carry out the requirements of the FCAA, as special consideration of local industries, geography, housing patterns, etc. are needed to have full comprehension of the local pollution control problems. As a result, the USEPA requires each state to develop a State Implementation Plan (SIP) that explains how each state will implement the FCAA within their jurisdiction. A SIP is a collection of rules and regulations that a particular state will implement to control air quality within their jurisdiction. The CARB is the state agency that is responsible for preparing and implementing the California SIP.

2.1.2 TRANSPORTATION CONFORMITY

Transportation conformity requirements were added to the FCAA in the 1990 amendments, and the EPA adopted implementing regulations in 1997. See §176 of the FCAA (42 U.S.C. §7506) and 40 CFR Part 93, Subpart A. Transportation conformity serves much the same purpose as general conformity: it ensures that transportation plans, transportation improvement programs, and projects that are developed, funded, or approved by the United States Department of Transportation or that are recipients of funds under the Federal Transit Act or from the Federal Highway Administration (FHWA), conform to the SIP as approved or promulgated by EPA.

Currently, transportation conformity applies in nonattainment areas and maintenance areas (maintenance areas are those areas that were in nonattainment that have been redesignated to attainment, under the FCCA). Under transportation conformity, a determination of conformity with the applicable SIP must be made by the agency responsible for the project, such as the Metropolitan Planning Organization, the Council of Governments, or a federal agency. The agency making the determination is also responsible for all the requirements relating to public participation. Generally, a project will be considered in conformance if it is in the transportation improvement plan and the transportation improvement plan is incorporated in the SIP. If an action is covered under transportation conformity, it does not need to be separately evaluated under general conformity.

2.1.3 TRANSPORTATION CONTROL MEASURES

One particular aspect of the SIP development process is the consideration of potential control measures as a part of making progress towards clean air goals. While most SIP control measures are aimed at reducing emissions from stationary sources, some are typically also created to address mobile or transportation sources. These are known as transportation control measures (TCMs). TCM strategies are designed to reduce vehicle miles traveled and trips, or vehicle idling and associated air pollution. These goals are achieved by developing attractive and convenient alternatives to single-occupant vehicle use. Examples of TCMs include ridesharing programs, transportation infrastructure improvements such as adding bicycle and carpool lanes, and expansion of public transit.

2.2 STATE

2.2.1 CALIFORNIA CLEAN AIR ACT

The CCAA was first signed into law in 1988. The CCAA provides a comprehensive framework for air quality planning and regulation, and spells out, in statute, the state's air quality goals, planning and regulatory strategies, and performance. The CARB is the agency responsible for administering the CCAA. The CARB established ambient air quality standards pursuant to the California Health and Safety Code (CH&SC) [§39606(b)], which are similar to the federal standards.

2.2.2 CALIFORNIA AIR QUALITY STANDARDS

Although NAAQS are determined by the USEPA, states have the ability to set standards that are more stringent than the federal standards. As such, California established more stringent ambient air quality standards. Federal and state ambient air quality standards have been established for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, suspended particulates (PM_{10}) and lead. In addition, California has created standards for pollutants that are not covered by federal standards. Although there is some variability among the health effects of the CAAQS pollutants, each has been linked to multiple adverse health effects including, among others, premature death, hospitalizations and emergency department visits for exacerbated chronic disease, and increased symptoms such as coughing and wheezing. The existing state and federal primary standards for major pollutants are shown in Table 3.

Air quality standard setting in California commences with a critical review of all relevant peer reviewed scientific literature. The Office of Environmental Health Hazard Assessment (OEHHA) uses the review of health literature to develop a recommendation for the standard. The recommendation can be for no

change, or can recommend a new standard. The review, including the OEHHA recommendation, is summarized in a document called the draft Initial Statement of Reasons (ISOR), which is released for comment by the public, and also for public peer review by the Air Quality Advisory Committee (AQAC). AQAC members are appointed by the President of the University of California for their expertise in the range of subjects covered in the ISOR, including health, exposure, air quality monitoring, atmospheric chemistry and physics, and effects on plants, trees, materials, and ecosystems. The Committee provides written comments on the draft ISOR. The ARB staff next revises the ISOR based on comments from AQAC and the public. The revised ISOR is then released for a 45-day public comment period prior to consideration by the Board at a regularly scheduled Board hearing.

In June of 2002, the CARB adopted revisions to the PM_{10} standard and established a new $PM_{2.5}$ annual standard. The new standards became effective in June 2003. Subsequently, staff reviewed the published scientific literature on ground-level ozone and nitrogen dioxide and the CARB adopted revisions to the standards for these two pollutants. Revised standards for ozone and nitrogen dioxide went into effect on May 17, 2006 and March 20, 2008, respectively. These revisions reflect the most recent changes to the CAAQS.

2.2.3 CARB MOBILE-SOURCE REGULATION

The State of California is responsible for controlling emissions from the operation of motor vehicles in the state. Rather than mandating the use of specific technology or the reliance on a specific fuel, the CARB's motor vehicle standards specify the allowable grams of pollution per mile driven. In other words, the regulations focus on the reductions needed rather than on the manner in which they are achieved. Towards this end, the CARB has adopted regulations which required auto manufacturers to phase in less polluting vehicles.

2.2.4 CARB AIR QUALITY AND LAND USE HANDBOOK

The CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* addresses the importance of considering health risk issues when siting sensitive land uses, including residential development, in the vicinity of intensive air pollutant emission sources including freeways or high-traffic roads, distribution centers, ports, petroleum refineries, chrome plating operations, dry cleaners, and gasoline dispensing facilities. The CARB Handbook draws upon studies evaluating the health effects of traffic traveling on major interstate highways in metropolitan California centers within Los Angeles (Interstate [I] 405 and I-710), the San Francisco Bay, and San Diego areas. The recommendations identified by the CARB, including siting residential uses a minimum distance of 500 feet from freeways or other high-traffic roadways, are consistent with those adopted by the State of California for location of new schools. Specifically, the CARB Handbook recommends, "Avoid siting new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day" (CARB, 2005).

2.2.5 TANNER AIR TOXICS ACT

California regulates TACs primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Act sets forth a formal procedure for the CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before the CARB can designate a substance as a TAC. To date, the CARB has identified more

than 21 TACs and has adopted EPA's list of HAPs as TACs. Most recently, diesel PM was added to the CARB list of TACs. Once a TAC is identified, the CARB then adopts an Airborne Toxics Control Measure (ATCM) for sources that emit that particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate Best Available Control Technology (BACT) to minimize emissions.

The AB 2588 requires that existing facilities that emit toxic substances above a specified level prepare a toxic-emission inventory, prepare a risk assessment if emissions are significant, notify the public of significant risk levels, and prepare and implement risk reduction measures. The CARB has adopted diesel exhaust control measures and more stringent emission standards for various on-road mobile sources of emissions, including transit buses and off-road diesel equipment (e.g., tractors, generators). In February 2000, the CARB adopted a new public-transit bus-fleet rule and emission standards for new urban buses. These rules and standards provide for (1) more stringent emission standards for some new urban bus engines, beginning with 2002 model year engines; (2) zero-emission bus demonstration and purchase requirements applicable to transit agencies; and (3) reporting requirements under which transit agencies must demonstrate compliance with the urban transit bus fleet rule. Other recent milestones include the low-sulfur diesel-fuel requirement, and tighter emission standards for heavy-duty diesel trucks (2007) and off-road diesel equipment (2011) nationwide.

2.3 LOCAL

2.3.1 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

The SCAQMD shares responsibility with the CARB for ensuring that all state and federal ambient air quality standards are achieved and maintained over an area of approximately 10,743 square miles. This area includes all of Orange County and Los Angeles County except for the Antelope Valley, the non-desert portion of western San Bernardino County, and the western and Coachella Valley portions of Riverside County.

The SCAQMD reviews projects to ensure that they do not (1) cause or contribute to any new violation of any air quality standard; (2) increase the frequency or severity of any existing violation of any air quality standard; or (3) delay the timely attainment of any air quality standard or any required interim emission reductions or other milestones of any federal attainment plan.

The SCAQMD is responsible for controlling emissions primarily from stationary sources. The SCAQMD maintains air quality monitoring stations throughout the South Coast Air Basin. In coordination with the Southern California Association of Governments (SCAG), the SCAQMD is also responsible for developing, updating, and implementing the Air Quality Management Plan (AQMP) for the South Coast Air Basin. An AQMP is a plan prepared and implemented by an air pollution district for a county or region designated as nonattainment of the national and/or California ambient air quality standards.

In 2003, an AQMP was prepared by the SCAQMD to bring the South Coast Air Basin, as well as portions of the Salton Sea Air Basin under the SCAQMD jurisdiction, into compliance with the 1-hour ozone and PM_{10} national standards. The 2003 AQMP also replaced the 1997 attainment demonstration for the federal CO

standard and provided a basis for a maintenance plan for CO for the future. It also updated the maintenance plan for the federal NO_2 standard, which the South Coast Air Basin has met since 1992.

A subsequent AQMP for the Basin was adopted by the SCAQMD on June 1, 2007. The goal of the 2007 AQMP was to lead the South Coast Air Basin into compliance with the national 8-hour ozone and PM2.5 standards. The 2007 AQMP outlined a detailed strategy for meeting the national health-based standards for $PM_{2.5}$ by 2015 and 8-hour ozone by 2024 while accounting for and accommodating future expected growth. The 2007 AQMP incorporated significant new emissions inventories, ambient measurements, scientific data, control strategies, and air quality modeling. Most of the reductions were to be from mobile sources, which are currently responsible for about 75 percent of all smog and particulate-forming emissions.

The SCAQMD approved the 2012 AQMP on December 7, 2012. The 2012 AQMP incorporated the latest scientific and technological information and planning assumptions, including the 2012–2035 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and updated emission inventory methodologies for various source categories. The 2012 AQMP outlines a comprehensive control strategy that meets the requirement for expeditious progress toward attainment with the 24-hour $PM_{2.5}$ federal ambient air quality standard with all feasible control measures and demonstrates attainment of the standard by 2014. The 2012 AQMP also updates the 8-hour ozone control plan with new emission reduction commitments from a set of new control measures that implement the 2007 AQMP's Section 182 (e)(5) commitments. The goal of the Final 2012 AQMP is to lead the Basin into compliance with the national 8-hour ozone and $PM_{2.5}$ standards.

The SCAQMD approved the Final 2016 AQMP on March 3, 2017. The 2016 AQMP includes transportation control measures developed by the SCAG from the 2016–2040 RTP/SCS, as well as the integrated strategies and measures needed to meet the NAAQS. The 2016 AQMP demonstrates attainment of the 1-hour and 8-hour ozone NAAQS as well as the latest 24-hour and annual $PM_{2.5}$ standards.

The SCAQMD has also prepared the 2010 Clean Communities Plan (Formerly the Air Toxics Control Plan), the Air Quality Monitoring Network Plan, the Vision for Air: A Framework for Air Quality and Climate Plan.

The SCAQMD is responsible for limiting the amount of emissions that can be generated throughout the basin by various stationary, area, and mobile sources. Specific rules and regulations have been adopted by the SCAQMD Governing Board that (1) limit the emissions that can be generated by various uses and activities; and (2) identify specific pollution reduction measures, which must be implemented in association with various uses and activities. These rules regulate the emissions of not only the federal and state criteria pollutants, but also TACs and acutely hazardous materials. The rules are also subject to ongoing refinement by the SCAQMD.

Among the SCAQMD rules that may be applicable to the proposed project are Rule 401 (Visible Emissions), Rule 402 (Nuisance), Rule 403 (Fugitive Dust), Rule 1113 (Architectural Coatings), Rule 1138 (Control of Emissions from Restaurant Operations), Rule 1146.2 (Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers and Process Heaters), and Rule 1403 (Asbestos Emissions from Demolition/Renovation Activities). Rule 401 restricts the emissions of air contaminants that significantly reduce air opacity. Rule 402 restricts discharges that cause nuisance to the public. Rule 403 requires the

use of stringent best available control measures (BACMs) to minimize PM_{10} emissions during grading and construction activities. Rule 1113 requires reductions in the VOC content of coatings. Rule 1138 specifies PM and VOC emissions and odor control requirements for some kinds of commercial cooking operations. Rule 1146.2 restricts the NOx emissions from natural gas-fired water heaters, boilers, and process heaters as defined by this rule. Compliance with SCAQMD Rule 1403 requires the owner or operator of any demolition or renovation activity to have an asbestos survey performed prior to demolition and to provide notification to the SCAQMD prior to commencing demolition activities.

SCAQMD's CEQA guidelines are voluntary initiatives recommended for consideration by local planning agencies. The CEQA *Air Quality Handbook* (Handbook) published by the SCAQMD provides local governments with guidance for analyzing and mitigating project-specific air quality impacts (SCAQMD, 1993). The SCAQMD is currently updating some of the information and methods in the Handbook, such as the screening tables for determining the air quality significance of a project and the on-road mobile source emission factors. While this process is underway, the SCAQMD recommends using other approved models to calculate emissions from land use projects, such as CalEEMod.

The SCAQMD *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning* considers impacts on air quality sensitive receptors from TAC-emitting facilities (SCAQMD, 2005). The SCAQMD's siting distance recommendations are the same as those provided by the CARB (e.g., a 500-foot siting distance for air quality sensitive receptors proposed in proximity to freeways and high-traffic roads, and the same siting criteria for distribution centers and dry-cleaning facilities).

2.3.2 SCAG REGIONAL TRANSPORTATION PLAN/SUSTAINABLE COMMUNITIES STRATEGY (RTP/SCS)

The SCAG is the MPO for the region in which the City of San Jacinto is located. In 2020, the SCAG adopted Connect SoCal, the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), which is an update to the previous 2016 RTP/SCS (SCAG, 2020).

The 2020 RTP/SCS considers the role of transportation in the broader context of economic, environmental, and quality-of-life goals for the future, identifying regional transportation strategies to address mobility needs. The 2020 RTP/SCS describes how the region can attain the GHG emission-reduction targets set by the CARB by achieving a 19 percent reduction by 2035 compared to the 2005 level. Although the focus of the 2020 RTP/SCS is on GHG emission-reduction, compliance with and implementation of 2020 RTP/SCS policies and strategies would also have co-benefits of reducing per capita criteria air pollutant and TAC emissions associated with reduced per capita VMT. Improved air quality with implementation of the 2020 RTP/SCS policies would decrease reactive organic gases (ROG) (i.e., VOCs), CO, NOx, and $PM_{2.5}$ (SCAG, 2020).

The SCAG's 2020 RTP/SCS builds on the land use policies that were incorporated into the 2016 RTP/SCS, and provides specific strategies for successful implementation. These strategies include implementing the Sustainable Communities Program (SCP) – Housing and Sustainable Development (HSD) which will both accelerate housing production as well as enable implementation of the Sustainable Communities Strategy of Connect SoCal; encouraging use of active transportation, or human powered transportation such as bicycles, tricycles, wheelchairs, electric wheelchairs/"scooters", skates, and skateboards; and supporting

alternative fueled vehicles. The 2020 RTP/SCS overall land use pattern reinforces the trend of focusing new housing and employment in infill areas well served by transit.

In addition, the 2020 RTP/SCS includes goals and strategies to promote active transportation and improve transportation demand management (TDM). The 2020 RTP/SCS strategies support local planning and projects that serve short trips, increase access to transit, expand understanding and consideration of public health in the development of local plans and projects, and support improvements in sidewalk quality, local bike networks, and neighborhood mobility areas. The 2020 RTP/SCS proposes to better align active transportation investments with land use and transportation strategies, increase competitiveness of local agencies for federal and state funding, and to expand the potential for all people to use active transportation.

2.3.3 RIVERSIDE COUNTY GENERAL PLAN

Riverside County adopted its most current General Plan in 2015, with a number of amendments since that time. The County's General Plan provides a comprehensive set of goals, policies, and implementing actions to guide the County's growth. The County's General Plan includes the following elements: Land Use, Circulation, Multipurpose Open Space, Safety, Noise, Housing, Air Quality, Healthy Communities, and Administration.

2.3.4 GREEN BUILDING DESIGN

The City of San Jacinto encourages homeowners and building professionals to incorporate green building design in construction activities through the use of "green" building materials. This can be accomplished by referencing the Home Remodeling Green Building Guidelines and implementing green measures into a home remodeling project.[1]

3.0 IMPACTS AND MITIGATION MEASURES

3.1 THRESHOLDS OF SIGNIFICANCE FOR CRITERIA POLLUTANTS

Consistent with Appendix G of the CEQA Guidelines and the SCAQMD thresholds of significance, the project will have a significant impact on the environment associated with air quality if it will:

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

[1] https://www.lakeforestca.gov/DocumentCenter/View/1536/Green-Building-Guidelines-2007-Edition-PDF

3.2 METHODOLOGY AND ASSUMPTIONS

A brief discussion of the methodology and assumptions used to estimate proposed project's air pollutant emissions is provided below. For further detail on air emissions modeling parameters and assumptions, and other related calculations, see Appendices A and B.

3.2.1 CONSTRUCTION

Construction of the growth anticipated by the proposed project would have the potential to temporarily emit criteria air pollutant emissions through the use of heavy-duty construction equipment, such as excavators, cranes, and forklifts, and through vehicle trips generated from workers and haul trucks traveling to and from project sites. In addition, fugitive dust emissions would result from demolition and various soil-handling activities. Construction emissions of VOC, NOx, CO, SO_2, PM_{10} and $PM_{2.5}$ are included in this analysis. Construction emissions can vary substantially from day-to-day, depending on the intensity and specific type of construction activity. The maximum daily regional emissions are predicted values for the worst-case day and do not represent the emissions that would actually occur during every day of construction.

The proposed project is a planning-level document, and, as such, there are no specific projects, project construction dates, or specific construction plans identified. Therefore, quantification of emissions associated with buildout cannot be specifically determined at this time. However, the type and size of total anticipated growth is known. Construction emissions are based on the type and amount of off-road construction equipment and the scope of future development that could be allowed under the proposed project. Therefore, since CalEEMod provides default construction scenarios based on size and land use type, a reasonable worst case annual construction scenario was analyzed to provide an idea of daily emissions that could occur due to construction under the proposed project.[2] Full buildout of the proposed project (based on the land use assumptions provided by the proposed project), which is expected to occur by 2040, were modeled in CalEEMod.[3]

Construction was estimated to begin in June of 2020 and continue throughout 2040. Emission calculations assumed construction in 2021 as a conservative peak emissions year. In a year later, construction emissions would be less because cleaner construction equipment and vehicle fleet mix are expected as a result of State regulations that require cleaner construction equipment to be phased-in for heavy-duty equipment. Thus, construction emissions occurring in later years would be less than the impacts disclosed herein.

Construction activities were modeled to include site preparation, excavation/grading, building construction, paving, and architectural coating. CalEEMod defaults were used to determine construction

[2] Note that CalEEMod estimates daily emissions based on the size and type of the development, the number of days that would be needed to complete the activity (CalEEMod default), and the amount of equipment that would be needed to accomplish construction (CalEEMod default).

[3] For the sake of a conservative analysis, the modeling for both project construction and operational phases account total development that is projected to exist in the Study Area at buildout (year 2040), which includes both currently all development that would existing in the Study Area in year 2040. This acts as a proxy for the 'worst-case scenario' for the purposes of CEQA analysis.

equipment based on the type of construction. Modeling assumed the land uses contained in Table 3-4 of the Project Description.

Daily regional criteria air pollutant emissions for the different phases of construction were forecast based on construction activities, on-road and off-road mobile sources, and fugitive dust emission factors associated with the specific construction activity. Off-road mobile source emissions would result from the use of heavy-duty construction equipment such as bulldozers, loaders, and cranes. These off-road mobile sources emit VOC, NOx, CO, SO2, PM_{10} and $PM_{2.5}$. The emissions were estimated using CalEEMod (v.2020.4.0) software, an emissions inventory software program recommended by the SCAQMD. CalEEMod is based on outputs from the OFFROAD model and EMission FACtor (EMFAC) model, which are emissions estimation models developed by CARB and used to calculate emissions from construction activities, heavy-duty off-road equipment, and on-road vehicles. Activities parameters, such as number of equipment and equipment usage hours were provided by the future applicant.

Fugitive dust emissions (using PM_{10} as a surrogate) during construction activities were estimated in CalEEMod, which are based on the methods described in the US EPA AP-42 Compilation of Air Pollutant Emission Factors. During the application of architectural coatings, evaporation of solvents contained in surface coatings result in VOC emissions. CalEEMod was used to calculate VOC emissions based on the building surface area and the default VOC content provided by the air district or CARB's statewide limits.

On-road mobile sources during construction also have the potential to generate temporary criteria air pollutant emissions through worker vehicles and haul trucks traveling to and from project sites during construction. Mobile source emissions were calculated using VMT data in the Transportation Impact Assessment developed for the proposed project (Kittelson & Associates, 2021). CalEEMod default vehicle trips and trip lengths were used.

3.2.2 OPERATIONAL

Operation of development contemplated by the proposed General Plan would generate criteria air pollutant emissions from vehicle trips throughout the City, energy sources, such as natural gas combustion, and area sources, such as operation of landscaping equipment and use of consumer products, including solvents used in non-industrial applications which emit VOCs during their product use, such as cleaning supplies, kitchen aerosols, cosmetics and toiletries. Operational impacts were assessed for the full proposed project buildout year of 2040, inclusive of all development within San Jacinto projected to exist at that time. Daily maximum criteria air pollutant emissions were compared with the SCAQMD operational thresholds to determine the operational impacts of the proposed project.

The operational area emissions from the proposed project were estimated using the CalEEMod software. Area source emissions are based on hearth emissions, architectural coatings, landscaping equipment, and consumer product usage rates provided in CalEEMod. CalEEMod default values were used for area source emissions except that wood stoves and wood fireplaces were removed from the emissions calculations as they are not permitted within SCAQMD jurisdiction.

Intersection Hot Spot Analysis

Operation of the proposed project has the potential to generate traffic congestion and increase delay times at intersections within the local study area. The pollutant of primary concern when assessing the proposed project's impacts at local intersections is carbon monoxide because an elevated concentration of CO tends to accumulate near areas of heavy traffic congestion and where average vehicle speeds are low. Tailpipe emissions are of concern when assessing localized impacts of CO along paved roads.

An adverse concentration of CO, known as a "hotspot", would occur if there was an exceedance of the NAAQS or CAAQS. SCAQMD does not currently have guidance for conducting intersection hot spot analysis. However, Caltrans has guidance for evaluating CO hot spots in their Transportation Project-Level Carbon Monoxide Protocol (CO Protocol). Detailed guidance discussing which modeling programs to use, calculating emission rates, receiver placement, calculating 1-hour and 8-hour concentrations, and utilizing background concentrations are provided in the Caltrans' CO Protocol.

The potential for the proposed project to cause or contribute to CO hotspots is evaluated by comparing project intersections' volume data from the Transportation Impact Assessment (Kittelson & Associates, 2021) with prior studies conducted by SCAQMD in support of their AQMPs and considering existing background CO concentrations.

Toxic Air Contaminant Impacts (Construction and Operations)

Construction and operational activities have the potential to result in health risk impacts (cancer, or other acute or chronic conditions) related to TACs exposure from airborne emissions, specifically the emissions of diesel particulate matter. Health risk from TACs exposure is a cumulative localized impact based exposure of nearby sensitive receptors to specific construction activities as well as on location to the construction and operational activities that emit TACs. To determine the magnitude of health risks associated with TACs exposure, a Health Risk Assessment (HRA) is required. HRAs include dispersion modeling of TACs and in order to determine the specific numerical cancer and non-cancer (acute and chronic) risks associated with the TACs on nearby individual receptors (including residences and workers). In order to accurately model the magnitude of TAC exposure on individual receptors, the following information is required:

- Type of TACs emitted during construction and operational activities (e.g. diesel particulate matter, benzene, acrolein, aniline, etc.) (note: there are 187 hazardous air pollutants currently regulated by the USEPA that are considered TACs);
- TACs source location(s) and configuration (note: this is typically provided by the project applicant for the operational phase via a site plan and detail on the specific project type, and for the construction phase via construction plans);
- TAC emissions rate(s);
- TAC release height(s); and
- The precise location of nearby residential and workplace receptors.

This information is incorporated into dispersion modeling software (such as AERMOD), which is used in conjunction with facility health risk assessment software (such as the Hotspots Analysis and Reporting Program, otherwise known as HARP-2). The results of such analysis provide a numerical estimate of

maximum health risks, which are incorporated into the HRA (with detailed methodology and a list of assumptions provided). However, since the proposed project is a long-range planning document and therefore does not provide sufficient detail on specific development projects that would be developed as part of the proposed project (such as providing detailed information on the type, location, and sizing of potential sources of TACs such as warehouses, gasoline/diesel refueling stations, light industrial facilities, etc.), there is insufficient information available at this level of analysis to conduct a reasonable or scientifically valid analysis of TACs. Specific development projects in San Jacinto that have the potential to generate potentially significant risks associated with the release of TACs are required to undergo an analysis of their potential health risks associated with TACs, based upon the specific details of each individual project.

Overall, because there are no specific development projects identified or approved under the General Plan Update, the location of the development projects, and the exact nature of the development are unknown, determining health risk as this time is speculative. Therefore, the analysis of TAC health risk is discussed qualitatively in this analysis.

3.3 IMPACTS AND MITIGATION MEASURES

3.3.1 IMPACT 1 - GENERAL PLAN IMPLEMENTATION WOULD NOT CONFLICT WITH OR OBSTRUCT IMPLEMENTATION OF THE APPLICABLE AIR QUALITY PLAN (LESS THAN SIGNIFICANT)

The following analysis addresses the proposed project's consistency with applicable plans and policies that govern air quality. In particular, the analysis addresses consistency with the SCAQMD's AQMP, which is an air quality plan that includes strategies for achieving attainment of applicable ozone, PM_{10}, and $PM_{2.5}$ standards.

As discussed above, the SCAQMD has adopted a series of AQMPs to lead the Air Basin into compliance with several criteria air pollutant standards and other federal requirements, while taking into account construction and operational emissions associated with population and economic growth projections provided by the SCAG's 2020 RTP/SCS (SCAG, 2020). The SCAQMD recommends that, when determining whether a project is consistent with the relevant AQMPs, the lead agency should assess whether the project would directly obstruct implementation of the plans by impeding the SCAQMD's efforts to achieve attainment with respect to any criteria air pollutant for which it is currently not in attainment of the NAAQS and CAAQS (e.g., ozone, PM_{10}, and $PM_{2.5}$) and whether it is consistent with the demographic and economic assumptions (typically land use related, such as employment and population/residential units) upon which the plan is based. The SCAQMD guidance indicates that projects whose growth is included in the projections used in the formulation of the AQMP are considered to be consistent with the plan and would not interfere with its attainment.

The SCAQMD thresholds for construction and operational emissions are designed for the analysis of individual projects and not for long-term planning documents, such as the San Jacinto General Plan Update, which will be implemented over a 20-year period. Emissions are dependent on the exact size, nature, and location of an individual land use type, combined with reductions in localized impacts from the removal of existing land use types, as applicable (i.e. conversion of light industrial uses). Emissions

associated with the operation of individual projects, could exceed project-specific thresholds established by the SCAQMD.

CEQA requires that general plans be evaluated for consistency with the AQMP. Because the AQMP strategy is based on projections from local general plans, only new or amended general plan elements, specific plans, or individual projects under the general plan need to undergo a consistency review. Projects considered consistent with the local general plan are consistent with the air quality-related regional plan. Indicators of consistency include:

- Control Strategies: Whether implementation of a project would increase the frequency or severity of existing air quality violations; would cause or contribute to new violations; or would delay the timely attainment of AAQS or interim emissions reductions within the AQMP.
- Growth Projections: Whether implementation of the project would exceed growth assumptions within the AQMP, which in part, bases its strategy on growth forecasts from local general plans.

Construction

Control Strategies

The Air Basin is designated nonattainment for ozone and PM2.5 under the CAAQS and NAAQS, and nonattainment for PM10 under the CAAQS. The proposed project involves long-term growth associated with buildout of the City of San Jacinto. Therefore, the emissions of criteria pollutants associated with future developments under the proposed project could exceed the SCAQMD thresholds for criteria pollutants. Future development of individual projects under the proposed project would be required to comply with the CARB's requirements to minimize short-term emissions from on-road and off-road diesel equipment, including the ATCM to limit heavy-duty diesel motor vehicle idling to no more than 5 minutes at any given time, and with the SCAQMD's regulations such as Rule 403 for controlling fugitive dust and Rule 1113 for controlling VOC emissions from architectural coatings. Furthermore, as applicable to the type of growth, individual projects under the proposed General Plan would comply with fleet rules to reduce on-road truck emissions (i.e., 13 CCR, Section 2025 (CARB Truck and Bus regulation)). Compliance with these measures and requirements would be consistent with and meet or exceed the AQMP requirements for control strategies intended to reduce emissions from construction equipment and activities. Therefore, the construction anticipated by the proposed would be consistent with the AQMP under the first indicator.

Growth Projections

The proposed project would result in an increase in short-term employment compared to existing conditions. The proposed project will involve construction, but the project will not necessarily create new construction jobs, since construction-related jobs generated by the proposed project would likely be filled by employees within the construction industry within the City of San Jacinto and the greater Riverside County region. Construction industry jobs generally have no regular place of business, as construction workers commute to job sites throughout a given region, which may change several times a year. Moreover, these jobs would be temporary in nature. Therefore, the construction jobs generated by the

proposed project would not conflict with the long-term employment or population projections upon which the AQMPs are based.

Operation

Control Strategies

Future development under the proposed project would be required to comply with CARB motor vehicle standards, the SCAQMD regulations for stationary sources and architectural coatings, Title 24 energy efficiency standards, and, to the extent applicable, the 2020 RTP/SCS.

As discussed above, the AQMP includes land use and transportation strategies from the 2020 RTP/SCS that are intended to reduce VMT and resulting regional mobile source emissions. The applicable land use strategies include: planning for growth around livable corridors; providing more options for short trips/neighborhood mobility areas; supporting zero emission vehicles and expanding vehicle charging stations; and supporting local sustainability planning. The applicable transportation strategies include: managing through the Transportation Demand Management (TDM) Program and the Transportation System Management (TSM) Plan including advanced ramp metering, and expansion and integration of the traffic synchronization network; promoting active transportation. The majority of the transportation strategies are to be implemented by cities, counties, and other regional agencies such as the SCAG and the SCAQMD, although some can be furthered by individual development projects.

The location, design, and land uses of the growth anticipated by the proposed project would implement land use and transportation strategies related to reducing vehicle trips for residents and employees of the City by increasing commercial and residential density near public transit with the new land use designations such as Downtown Village and Mixed-Use. The City of San Jacinto is served by the Riverside County Transportation Commission (RCTC). RCTC provides bus service in Riverside County. It connects San Jacinto with several nearby cities (including Moreno Valley, Beaumont, Banning, and Hemet). RCTC also provides paratransit service. A significant portion of the bus stops in the City of San Jacinto have a bench or a shaded bus shelter. The availability of public transportation and the focus on increasing density relative to the existing public transportation, enables the proposed project to potentially reduce vehicle trips, VMT, and associated transportation-related emissions per capita, compared to the existing conditions. Therefore, the General Plan Update would result in a less than significant impact associated with air quality. The proposed project would be consistent with the AQMP under the first indicator.

Growth Projections

The emissions inventory for the South Coast Air Basin is formed, in part, by existing city and county general plans. The AQMP is based on population, employment and VMT forecasts by the SCAG. A project might be in conflict with the AQMP if the development is greater than that anticipated in the local general plan and the SCAG's growth projections. Future development in the City of an Jacinto that is consistent with the General Plan Update would increase vehicle trips and VMT that would result in emissions of ozone precursors and particulate matter. Individual projects under the General Plan Update would be required to undergo subsequent environmental review pursuant to CEQA, and would be required to demonstrate compliance with the AQMP. Individual projects would also be required to demonstrate compliance with the SCAQMD rules and regulations governing air quality.

The City of San Jacinto continues to coordinate with the SCAQMD and the SCAG to ensure city-wide growth projections, land use planning efforts, and local development patterns are accounted for in the regional planning and air quality planning processes. Therefore, the operation of the proposed General Plan Update would not conflict with or obstruct the implementation of the applicable air quality plan. Therefore, this impact is **less than significant**. Because impacts are less than significant, no mitigation measures are required. Nonetheless, the proposed General Plan includes policies and actions that when implemented will minimize potential impacts to air quality.

General Plan Mitigation Measures that Minimize Potential Impacts

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 CO_2e per capita by 2030
    - 0.62 MT CO_2e per capita by 2050.

3.3.2 IMPACT 2 - GENERAL PLAN IMPLEMENTATION WOULD RESULT IN A CUMULATIVELY CONSIDERABLE NET INCREASE OF CRITERIA POLLUTANTS FOR WHICH THE PROJECT REGION IS NON-ATTAINMENT UNDER AN APPLICABLE FEDERAL OR STATE AMBIENT AIR QUALITY STANDARD (SIGNIFICANT AND UNAVOIDABLE)

Ozone, NO_2, VOC and PM_{10} and $PM_{2.5}$ are pollutants of concern, as the SCAB has been designated as a nonattainment area for State ozone, PM_{10} and $PM_{2.5}$ and as a federal nonattainment area for ozone and PM_{10}. The SCAB is currently in attainment and/or unclassified for State and Federal CO, SOx, NO_2, lead and federal attainment for PM_{10}. The SCAQMD has established numerical significance thresholds for regional emissions during construction and operation. The numerical significance thresholds are based on the recognition that the Basin is a distinct geographic area with a critical air pollution problem for which ambient air quality standards have been promulgated to protect public health (SCAQMD, 1993). The proposed project would potentially cause or contribute to an exceedance of an ambient air quality standard if the following would occur:

Regional construction emissions from both direct and indirect sources would exceed any of the following SCAQMD prescribed daily emissions thresholds (SCAQMD, 2019):

- 75 pounds a day for VOC;
- 100 pounds per day for NOx;
- 150 pounds per day for PM_{10}; and
- 55 pounds per day for $PM_{2.5}$.

Regional operational emissions exceed any of the following SCAQMD prescribed daily emissions thresholds (SCAQMD, 2019):

- 55 pounds a day for VOC;
- 55 pounds per day for NOx;
- 150 pounds per day for PM_{10}; and
- 55 pounds per day for $PM_{2.5}$.

Construction

Construction of the growth anticipated by the proposed General Plan has the potential to temporarily emit criteria air pollutant emissions through the use of heavy-duty construction equipment, and through vehicle trips generated by workers and haul trucks. In addition, fugitive dust emissions would result from demolition and various soil-handling activities. Mobile source emissions, primarily NOx and PM emissions (i.e., PM_{10} and $PM_{2.5}$), would result from the use of diesel-powered on- and off-road vehicles and equipment. Construction emissions can vary substantially from day-to-day, depending on the level of activity and the specific type of construction activity.

Information regarding the specific development projects and location of receptors for those projects is required in order to model specific emissions throughout the buildout horizon. Construction activities are anticipated to occur at various levels throughout the 20-year buildout horizon (2020 to 2040). Since

specific projects are unknown at this time, as is the level of intensity of construction over the 20 years, the analysis provides emissions from an anticipated reasonable worst-case construction scenario. Specifically, emissions were modeled for all development within the Study Area in buildout year 2040.[4]

As detailed in the methodology section above, daily emissions were estimated for the construction of the land uses provided in Table 3-4 of the Project Description. Detailed information on modeling parameter inputs is provided in Appendices A and B. The results of the criteria air pollutant calculations are presented in Table 4. The calculations used to develop construction emissions incorporate compliance with applicable dust control measures required to be implemented during each phase of construction by SCAQMD Rule 403 (Control of Fugitive Dust), and fugitive VOC control measures required to be implemented by architectural coating emission factors based on SCAQMD Rule 1113 (Architectural Coatings).

As shown in Table 4, construction-related daily emissions would exceed the SCAQMD significance thresholds for VOCs. Therefore, short-term regional construction emissions would be **potentially significant**.

Table 4: Maximum Regional Construction Emissions (pounds/day)

Source	VOC	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**556.69**	**40.55**	**29.84**	**0.07**	**35.74**	**11.87**
SCAQMD Threshold	**75**	**100**	**550**	**150**	**150**	**55**
Above Threshold?	**Y**	**N**	**N**	**N**	**N**	**N**
Source: CalEEMod (v. 2020.4.0)						

Operation

Operation of the proposed project would generate criteria air pollutant emissions from project-generated vehicle trips traveling within the City, energy sources such as natural gas combustion, and area sources such as landscaping equipment and consumer products usage. The on-road mobile sources related to the operation of the proposed project include passenger vehicles, onsite use of off-road equipment and delivery trucks. VMT data, takes into account ridership, mode, and distance on freeways and local streets as provided in Section 3.14: Transportation. Projected emissions resulting from operational activities of the proposed project are presented in Table 5.

Table 5: Maximum Regional Operational Emissions (pounds/day)

Source	VOC	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**2,283.48**	**1,382.81**	**13,348.02**	**27.32**	**3,594.57**	**991.42**

[4] Note that this approach provides an overestimate of the emissions generated by the proposed project within the Study Area (since it models total development that is projected to exist within the Study Area in 2040, including development that currently exists and would continue to exist in 2040). This approach to estimated proposed project emissions provides a proxy for the 'worst-case scenario' for the purposes of CEQA analysis.

SCAQMD Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Above Threshold?	**Y**	**Y**	**Y**	**N**	**Y**	**Y**
Source: CalEEMod (v. 2020.4.0)						

As identified in Table 5, operational emissions for the proposed project would exceed regulatory thresholds for VOC, NOx, CO, PM_{10}, and $PM_{2.5}$. While these thresholds are the only thresholds available for numerically determining significance, it should be noted that these thresholds were specifically developed for use in determining significance for individual projects and not for program-level documents, such as the General Plan. However, as emissions for VOC, NOx, PM_{10}, and $PM_{2.5}$ exceed regulatory thresholds, the regional operational emissions would be **potentially significant**.

Conclusion

The exact level of construction emissions from the development anticipated by the proposed project cannot be quantified without full detail of the development projects to be implemented and the extent to which mitigation can be applied. Individual projects anticipated by the proposed project will be required to implement their own environmental review. The proposed policies and actions of the General Plan listed below would potentially reduce emissions, which could potentially address impacts related to conflicts with an applicable air quality plan. These policies and actions are oriented toward the reduction of the air quality impacts of individual projects.

With respect to operational emissions, future development under the General Plan Update would be required to comply with AQMP, SIP, CARB, SCAQMD regulations, Title 24 energy efficiency standards, and the proposed project policies and actions. However, as there is no way to determine the effectiveness of such regulations, policies, and actions for individual projects, it is impossible to determine if potential impacts would be reduced to below regulatory thresholds. Like for construction emissions, the policies and actions of the General Plan listed below would potentially reduce operational emissions.

There are no feasible criteria air pollutant reduction measures beyond those identified within the policies and actions listed above under Impact 1 and those listed below, that would reduce impacts. While implementation of these policies and actions would reduce criteria pollutant emissions, the extent to which the impacts would have to be determined on a project-by-project basis, as necessary. Therefore, this impact is **significant and unavoidable**.

General Plan Mitigation Measures that Minimize Potential Impacts

See the policies and actions listed under Impact 1.

3.3.2 IMPACT 3 - GENERAL PLAN IMPLEMENTATION WOULD EXPOSE SENSITIVE RECEPTORS TO SUBSTANTIAL POLLUTANT CONCENTRATIONS (SIGNIFICANT AND UNAVOIDABLE)

Criteria air pollutant emissions have the potential to result in health impacts on sensitive receptors located near new development within the Study Area. As discussed previously, localized impacts are associated with onsite activities. In addition to these localized impacts, vehicle travel associated with the proposed project has the potential to result in exposure of sensitive receptors to CO emissions from intersection congestion. Based on the nature and extent of new development, nearby sensitive receptors could be

exposed to levels of toxic air contaminants that could result in a potential increase in cancer, acute, and/or chronic risk. The proposed project would potentially cause a significant impact if one of the following would occur:

Localized emissions from NO_2 and CO for the proposed project, when combined with existing ambient concentrations, would exceed the CAAQS.

Localized emissions from PM_{10} and $PM_{2.5}$ would result in exceedance of the following incremental increase thresholds:

- 10.4 µg/m^3 (24-hour) and 1 µg/m^3 of PM_{10} (Annual) for construction;
- 10.4 µg/m^3 (24-hour) of $PM_{2.5}$ for construction;
- 2.5 µg/m^3 (24-hour) and 1.0 µg/m^3 (Annual) of PM_{10} for operations; and
- 2.5 µg/m^3 (24-hour) of $PM_{2.5}$ for operation.

Buildout of the proposed project would emit carcinogenic materials or TACs that exceed the maximum incremental cancer risk of ten in one million or an acute or chronic hazard index of 1.0; or if cancer burden corresponds to an increase in more than 0.5 excess cancer cases in areas where the Project-related increase in individual cancer risk exceeds 1 in one million.

Local Air Quality

The SCAQMD recommends the evaluation of localized air quality impacts on sensitive receptors in the immediate vicinity of project-specific level proposed projects (following the SCAQMD Localized Significant Threshold, or LST, methodology). However, the SCAQMD explicitly advises that the LST methodology is not applicable to regional projects such as General Plans. Therefore, an analysis of localized emissions during construction activities is not provided herein. Because the exact nature, location, and operation of the future developments are unknown, quantification of potential localized operational risk would be speculative. However, as construction and operation of these future developments will occur within close proximity to sensitive receptors, there is the potential for localized emissions to exceed regulatory levels. Therefore, localized construction and operational emissions with respect to the proposed project would be **potentially significant**.

Intersection Hot Spot Analysis

The potential for the proposed project to cause or contribute to CO hotspots is evaluated by comparing project intersections (both intersection geometry and traffic volumes) with prior studies conducted by the SCAQMD in support of their AQMPs and considering existing background CO concentrations. As discussed below, this comparison demonstrates that the proposed project would not cause or contribute considerably to the formation of CO hotspots, that CO concentrations at project impacted intersections would remain well below the ambient air quality standards, and that no further CO analysis is warranted or required.

CO levels in the Study Area are substantially below the Federal and State standards. CO levels decreased dramatically in the Air Basin with the introduction of the catalytic converter in 1975. No exceedances of

CO have been recorded at monitoring stations in the Air Basin for some time and the Air Basin is currently designated as a CO attainment area for both the CAAQS and NAAQS. Thus, it is not expected that CO levels within the Study Area at project-impacted intersections would rise to the level of an exceedance of these standards.

Additionally, the SCAQMD conducted CO modeling for the 2003 AQMP for the four worst-case intersections in the Air Basin: (1) Wilshire Boulevard and Veteran Avenue; (2) Sunset Boulevard and Highland Avenue; (3) La Cienega Boulevard and Century Boulevard; and (4) Long Beach Boulevard and Imperial Highway. Based on the intersection volumes identified in the 2003 AQMP, if a project's traffic levels exceed 100,000 vehicles per day at any proposed project-impacted intersection, there would be the potential for significant impacts and dispersion modeling would need to be conducted to determine project level impacts.

As provided within the data provided within the Transportation Impact Analysis developed by Kittelson & Associates, there are no intersections would exceed 100,000 vehicles per day within the Study Area. As a result, CO concentrations are expected to be less than those estimated in the 2003 AQMP, which would not exceed the applicable thresholds. Thus, this comparison demonstrates that the proposed project would not contribute considerably to the formation of CO hotspots and no further CO analysis is required. The proposed project would result in **less than significant** impacts with respect to CO hotspots.

Toxic Air Contaminants

Construction and operation of the proposed project would result in emissions of TACs, predominantly from diesel particulate emissions from on- and off-road vehicles during construction and from the operation of diesel fueled equipment or generators during operational activities. Because the exact nature, location, and operation of the future developments are unknown, and because health risk impacts from TACs are cumulative over the life of the nearby receptors, quantification of potential health risks would be speculative. However, as construction and operation of these future developments will occur within close proximity to sensitive receptors, there is the potential for risk to exceed regulatory levels. Therefore, health risks with respect to the development anticipated by the proposed project would be **potentially significant**.

Health Impacts

Because regional emissions exceed the SCAQMD regulatory thresholds during construction and operational activities, there is the potential that these emissions would exceed the CAAQS and NAAQS thus resulting in a health impact. Without knowing the exact specifications for all projects that may be developed under the General Plan Update, there is no way to accurately calculate the potential for health impacts from the overall General Plan Update. Individual projects will be required to provide their own environmental assessments to determine health impacts from the construction and operation of their projects. Because there is no way to determine the potential for these projects to affect health of sensitive receptors within the City of San Jacinto, the proposed project would result in **potentially significant** health impacts.

The proposed policies of the General Plan listed below would potentially reduce emissions, which could potentially reduce impacts related to conflicts with an applicable air quality plan.

Conclusion

With respect to local air quality emissions, toxic air contaminant emissions, and health impacts, future development under the General Plan would be required to comply with AQMP, SIP, CARB, SCAQMD regulations, Title 24 energy efficiency standards, and the proposed General Plan policies and actions. Implementation of the policies and actions listed below would mitigate and reduce such emissions. However, the exact location, type, nature, and size of future projects that may expose sensitive receptors to pollutant concentrations cannot be calculated at this time, as the details of potential future projects are not currently known. As such, there is no way to determine the extent to which these regulations will be, or need to be, implemented, and it is impossible to determine if potential impacts would be reduced to below regulatory thresholds. Additionally, there are no feasible mitigation measures beyond the policies and actions listed below. Therefore, localized operational impacts, construction and operational health and toxic air impacts would remain **significant and unavoidable**.

General Plan Mitigation Measures that Minimize Potential Impacts

See the policies and actions listed under Impact 1.

4.0 REFERENCES

California Air Resources Board

2013 ARB Almanac. Chapter 4: Regional Trends. Available at: https://ww3.arb.ca.gov/aqd/almanac/almanac13/pdf/chap413.pdf

2014 Background Material: Almanac of Emissions and Air Quality 2013 Edition - Chapter 4 Regional Trends and Forecasts. Page last reviewed on February 7, 2014. Available: https://ww3.arb.ca.gov/aqd/almanac/almanac13/chap413.htm

2019 California Air Resources Board. 2019. California Ambient Air Quality Standards (CAAQS). Available at: http://www.arb.ca.gov/research/aaqs/caaqs/caaqs.htm

Kittelson & Associates

2021 San Jacinto General Plan Update Transportation Impact Analysis. August.

Nasa

2015 NASA: Background Ozone a Major Issue in U.S. West. September 29. Available at: https://www.jpl.nasa.gov/news/nasa-background-ozone-a-major-issue-in-us-west

SCAG

2016 Final 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy. Available at: http://scagrtpscs.net/Pages/FINAL2016RTPSCS.aspx

SCAQMD

1993 CEQA Air Quality Handbook. Available at: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ceqa-airquality-handbook-(1993)

2005 Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. May 06, 2005.

2019 South Coast AQMD Air Quality Significance Thresholds. April. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2

U.S. Environmental Protection Agency

2016 Basic Information about Carbon Monoxide (CO) Outdoor Air Pollution. Available: https://www.epa.gov/co-pollution/basic-informationabout-carbon-monoxide-co-outdoor-air-pollution#Effects.

2018 National Air Quality: Status and Trends of Key Air Pollutants. Available: https://www.epa.gov/air-trends.

2019a Health Effects of Ozone Pollution. Available at: https://www.epa.gov/ground-level-ozone-pollution/health-effects-ozonepollution.

2019b Health Effects of Ozone In the General Population. Available: https://www.epa.gov/ozone-pollution-and-your-patients-health/healtheffects-ozone-general-population.

Appendix A:

CalEEMod Daily Emission Output

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 asssumes 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

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

	ROG	NOx	CO	SO2	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					
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**

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

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

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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,541.1208	1,541.1208	0.0174	0.2269	1,609.1832
Worker	0.8075	0.4575	8.0788	0.0234	2.8391	0.0120	2.8511	0.7530	0.0111	0.7640		2,360.4170	2,360.4170	0.0476	0.0517	2,377.0036
Total	**0.9017**	**3.2443**	**9.2095**	**0.0379**	**3.3899**	**0.0363**	**3.4263**	**0.9115**	**0.0343**	**0.9459**		**3,901.5379**	**3,901.5379**	**0.0651**	**0.2786**	**3,986.1868**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,541.1208	1,541.1208	0.0174	0.2269	1,609.1832
Worker	0.8075	0.4575	8.0788	0.0234	2.8391	0.0120	2.8511	0.7530	0.0111	0.7640		2,360.4170	2,360.4170	0.0476	0.0517	2,377.0036
Total	**0.9017**	**3.2443**	**9.2095**	**0.0379**	**3.3899**	**0.0363**	**3.4263**	**0.9115**	**0.0343**	**0.9459**		**3,901.5379**	**3,901.5379**	**0.0651**	**0.2786**	**3,986.1868**

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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,513.0817	1,513.0817	0.0181	0.2224	1,579.8005
Worker	0.7582	0.4141	7.5682	0.0226	2.8391	0.0114	2.8505	0.7530	0.0105	0.7634		2,286.6023	2,286.6023	0.0432	0.0486	2,302.1661
Total	**0.8512**	**3.1729**	**8.6881**	**0.0369**	**3.3899**	**0.0356**	**3.4255**	**0.9115**	**0.0336**	**0.9452**		**3,799.6840**	**3,799.6840**	**0.0612**	**0.2710**	**3,881.9666**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,513.0817	1,513.0817	0.0181	0.2224	1,579.8005
Worker	0.7582	0.4141	7.5682	0.0226	2.8391	0.0114	2.8505	0.7530	0.0105	0.7634		2,286.6023	2,286.6023	0.0432	0.0486	2,302.1661
Total	**0.8512**	**3.1729**	**8.6881**	**0.0369**	**3.3899**	**0.0356**	**3.4255**	**0.9115**	**0.0336**	**0.9452**		**3,799.6840**	**3,799.6840**	**0.0612**	**0.2710**	**3,881.9666**

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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,483.5855	1,483.5855	0.0186	0.2177	1,548.9169
Worker	0.7132	0.3773	7.1305	0.0220	2.8391	0.0107	2.8498	0.7530	9.8200e-003	0.7628		2,220.6513	2,220.6513	0.0393	0.0460	2,235.3537
Total	**0.8053**	**3.1082**	**8.2416**	**0.0359**	**3.3899**	**0.0348**	**3.4247**	**0.9115**	**0.0329**	**0.9444**		**3,704.2368**	**3,704.2368**	**0.0579**	**0.2637**	**3,784.2706**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,483.5855	1,483.5855	0.0186	0.2177	1,548.9169
Worker	0.7132	0.3773	7.1305	0.0220	2.8391	0.0107	2.8498	0.7530	9.8200e-003	0.7628		2,220.6513	2,220.6513	0.0393	0.0460	2,235.3537
Total	**0.8053**	**3.1082**	**8.2416**	**0.0359**	**3.3899**	**0.0348**	**3.4247**	**0.9115**	**0.0329**	**0.9444**		**3,704.2368**	**3,704.2368**	**0.0579**	**0.2637**	**3,784.2706**

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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,455.2675	1,455.2675	0.0192	0.2131	1,519.2581
Worker	0.6728	0.3466	6.7653	0.0214	2.8391	9.9500e-003	2.8491	0.7530	9.1600e-003	0.7621		2,162.4065	2,162.4065	0.0360	0.0439	2,176.3894
Total	**0.7642**	**3.0551**	**7.8702**	**0.0351**	**3.3899**	**0.0339**	**3.4238**	**0.9115**	**0.0321**	**0.9436**		**3,617.6740**	**3,617.6740**	**0.0552**	**0.2570**	**3,695.6475**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,455.2675	1,455.2675	0.0192	0.2131	1,519.2581
Worker	0.6728	0.3466	6.7653	0.0214	2.8391	9.9500e-003	2.8491	0.7530	9.1600e-003	0.7621		2,162.4065	2,162.4065	0.0360	0.0439	2,176.3894
Total	**0.7642**	**3.0551**	**7.8702**	**0.0351**	**3.3899**	**0.0339**	**3.4238**	**0.9115**	**0.0321**	**0.9436**		**3,617.6740**	**3,617.6740**	**0.0552**	**0.2570**	**3,695.6475**

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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,428.6103	1,428.6103	0.0198	0.2089	1,491.3421
Worker	0.6343	0.3202	6.4473	0.0209	2.8391	9.2700e-003	2.8484	0.7530	8.5300e-003	0.7615		2,110.9121	2,110.9121	0.0332	0.0421	2,124.2823
Total	**0.7251**	**3.0084**	**7.5473**	**0.0343**	**3.3899**	**0.0331**	**3.4230**	**0.9115**	**0.0314**	**0.9429**		**3,539.5224**	**3,539.5224**	**0.0529**	**0.2509**	**3,615.6244**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,428.6103	1,428.6103	0.0198	0.2089	1,491.3421
Worker	0.6343	0.3202	6.4473	0.0209	2.8391	9.2700e-003	2.8484	0.7530	8.5300e-003	0.7615		2,110.9121	2,110.9121	0.0332	0.0421	2,124.2823
Total	**0.7251**	**3.0084**	**7.5473**	**0.0343**	**3.3899**	**0.0331**	**3.4230**	**0.9115**	**0.0314**	**0.9429**		**3,539.5224**	**3,539.5224**	**0.0529**	**0.2509**	**3,615.6244**

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		1,261.0411	1,261.0411	0.0234	0.1826	1,316.0352
Worker	0.3705	0.1981	4.8428	0.0182	2.8391	5.0800e-003	2.8442	0.7530	4.6800e-003	0.7576		1,834.2883	1,834.2883	0.0174	0.0341	1,844.8861
Total	**0.4620**	**2.7787**	**5.9594**	**0.0300**	**3.3899**	**0.0274**	**3.4172**	**0.9115**	**0.0260**	**0.9375**		**3,095.3294**	**3,095.3294**	**0.0408**	**0.2167**	**3,160.9213**

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		1,261.0411	1,261.0411	0.0234	0.1826	1,316.0352
Worker	0.3705	0.1981	4.8428	0.0182	2.8391	5.0800e-003	2.8442	0.7530	4.6800e-003	0.7576		1,834.2883	1,834.2883	0.0174	0.0341	1,844.8861
Total	**0.4620**	**2.7787**	**5.9594**	**0.0300**	**3.3899**	**0.0274**	**3.4172**	**0.9115**	**0.0260**	**0.9375**		**3,095.3294**	**3,095.3294**	**0.0408**	**0.2167**	**3,160.9213**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	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

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
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

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	1,209.8637	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
Unmitigated	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

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

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 asssumes 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

	ROG	NOx	CO	SO2	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					
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**

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

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

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	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
Total	**2,123.0918**	**1,462.2478**	**12,233.4235**	**25.4589**	**3,547.8095**	**46.7690**	**3,594.5785**	**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	1,209.8637	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	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
Total	**2,123.0918**	**1,462.2478**	**12,233.4235**	**25.4589**	**3,547.8095**	**46.7690**	**3,594.5785**	**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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	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	6,011.4777	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	0.0684	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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,544.9945	1,544.9945	0.0171	0.2277	1,613.2719
Worker	0.7613	0.4744	6.5716	0.0212	2.8391	0.0120	2.8511	0.7530	0.0111	0.7640		2,139.7387	2,139.7387	0.0477	0.0529	2,156.6806
Total	**0.8483**	**3.4301**	**7.7411**	**0.0357**	**3.3899**	**0.0364**	**3.4264**	**0.9115**	**0.0344**	**0.9460**		**3,684.7332**	**3,684.7332**	**0.0648**	**0.2805**	**3,769.9525**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,544.9945	1,544.9945	0.0171	0.2277	1,613.2719
Worker	0.7613	0.4744	6.5716	0.0212	2.8391	0.0120	2.8511	0.7530	0.0111	0.7640		2,139.7387	2,139.7387	0.0477	0.0529	2,156.6806
Total	**0.8483**	**3.4301**	**7.7411**	**0.0357**	**3.3899**	**0.0364**	**3.4264**	**0.9115**	**0.0344**	**0.9460**		**3,684.7332**	**3,684.7332**	**0.0648**	**0.2805**	**3,769.9525**

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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,516.9014	1,516.9014	0.0177	0.2231	1,583.8300
Worker	0.7170	0.4292	6.1622	0.0205	2.8391	0.0114	2.8505	0.7530	0.0105	0.7634		2,073.2570	2,073.2570	0.0433	0.0497	2,089.1549
Total	**0.8029**	**3.3555**	**7.3208**	**0.0348**	**3.3899**	**0.0357**	**3.4256**	**0.9115**	**0.0337**	**0.9453**		**3,590.1584**	**3,590.1584**	**0.0611**	**0.2728**	**3,672.9849**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,516.9014	1,516.9014	0.0177	0.2231	1,583.8300
Worker	0.7170	0.4292	6.1622	0.0205	2.8391	0.0114	2.8505	0.7530	0.0105	0.7634		2,073.2570	2,073.2570	0.0433	0.0497	2,089.1549
Total	**0.8029**	**3.3555**	**7.3208**	**0.0348**	**3.3899**	**0.0357**	**3.4256**	**0.9115**	**0.0337**	**0.9453**		**3,590.1584**	**3,590.1584**	**0.0611**	**0.2728**	**3,672.9849**

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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,487.3506	1,487.3506	0.0183	0.2184	1,552.8871
Worker	0.6763	0.3910	5.8105	0.0199	2.8391	0.0107	2.8498	0.7530	9.8200e-003	0.7628		2,013.7755	2,013.7755	0.0396	0.0471	2,028.7940
Total	**0.7613**	**3.2878**	**6.9603**	**0.0339**	**3.3899**	**0.0348**	**3.4248**	**0.9115**	**0.0329**	**0.9445**		**3,501.1261**	**3,501.1261**	**0.0579**	**0.2655**	**3,581.6811**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,487.3506	1,487.3506	0.0183	0.2184	1,552.8871
Worker	0.6763	0.3910	5.8105	0.0199	2.8391	0.0107	2.8498	0.7530	9.8200e-003	0.7628		2,013.7755	2,013.7755	0.0396	0.0471	2,028.7940
Total	**0.7613**	**3.2878**	**6.9603**	**0.0339**	**3.3899**	**0.0348**	**3.4248**	**0.9115**	**0.0329**	**0.9445**		**3,501.1261**	**3,501.1261**	**0.0579**	**0.2655**	**3,581.6811**

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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,458.9735	1,458.9735	0.0189	0.2138	1,523.1649
Worker	0.6395	0.3591	5.5164	0.0194	2.8391	9.9500e-003	2.8491	0.7530	9.1600e-003	0.7621		1,961.1827	1,961.1827	0.0363	0.0449	1,975.4662
Total	**0.7238**	**3.2324**	**6.6600**	**0.0331**	**3.3899**	**0.0340**	**3.4239**	**0.9115**	**0.0322**	**0.9437**		**3,420.1562**	**3,420.1562**	**0.0552**	**0.2587**	**3,498.6311**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,458.9735	1,458.9735	0.0189	0.2138	1,523.1649
Worker	0.6395	0.3591	5.5164	0.0194	2.8391	9.9500e-003	2.8491	0.7530	9.1600e-003	0.7621		1,961.1827	1,961.1827	0.0363	0.0449	1,975.4662
Total	**0.7238**	**3.2324**	**6.6600**	**0.0331**	**3.3899**	**0.0340**	**3.4239**	**0.9115**	**0.0322**	**0.9437**		**3,420.1562**	**3,420.1562**	**0.0552**	**0.2587**	**3,498.6311**

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		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,432.2574	1,432.2574	0.0194	0.2095	1,495.1856
Worker	0.6043	0.3316	5.2597	0.0189	2.8391	9.2700e-003	2.8484	0.7530	8.5300e-003	0.7615		1,914.6275	1,914.6275	0.0335	0.0430	1,928.2852
Total	**0.6880**	**3.1835**	**6.3985**	**0.0324**	**3.3899**	**0.0332**	**3.4231**	**0.9115**	**0.0314**	**0.9430**		**3,346.8849**	**3,346.8849**	**0.0529**	**0.2526**	**3,423.4708**

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	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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		1,432.2574	1,432.2574	0.0194	0.2095	1,495.1856
Worker	0.6043	0.3316	5.2597	0.0189	2.8391	9.2700e-003	2.8484	0.7530	8.5300e-003	0.7615		1,914.6275	1,914.6275	0.0335	0.0430	1,928.2852
Total	**0.6880**	**3.1835**	**6.3985**	**0.0324**	**3.3899**	**0.0332**	**3.4231**	**0.9115**	**0.0314**	**0.9430**		**3,346.8849**	**3,346.8849**	**0.0529**	**0.2526**	**3,423.4708**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	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

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
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	1,209.8637	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
Unmitigated	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

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

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 asssumes 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	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**

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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	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**

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**

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**

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**

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**

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	64,617.7852	64,617.7852	5.4540	0.6611	64,951.1375
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	64,617.7852	64,617.7852	5.4540	0.6611	64,951.1375
NaturalGas Mitigated	4.8871	42.1981	20.9668	0.2666		3.3765	3.3765		3.3765	3.3765	0.0000	48,365.2821	48,365.2821	0.9270	0.8867	48,652.6928
NaturalGas Unmitigated	4.8871	42.1981	20.9668	0.2666		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

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments 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

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**

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	18,505.3259	163.3541	3.9966	23,780.1641
Unmitigated	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

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**

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**

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	9,915.5402	585.9916	0.0000	24,565.3311
Unmitigated	9,915.5402	585.9916	0.0000	24,565.3311

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**

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