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Subject: CalEEMod Air Quality, Greenhouse Gas, Noise, and Energy Impact Study for a Residential Development Project in San Jacinto, CA

Dear Mr. Tang:

Yorke Engineering, LLC (Yorke) is pleased to provide this Air Quality (AQ), Greenhouse Gas (GHG), Noise, and Energy Impact Letter Report. This AQ/GHG/Noise/Energy Impact Letter Report includes CalEEMod emissions estimates, criteria pollutant analysis, localized significance level (LST) analysis, GHG analysis, noise analysis, and energy impact analysis for the proposed residential development in the City of San Jacinto, California (City). These evaluations will support the Applicant's submittal of a CEQA Initial Study (IS) with a Categorical Exemption (CATX) or a Mitigated Negative Declaration (MND), as applicable.

PROJECT DESCRIPTION

Golden Ocean Realty, LLC is proposing to develop approximately 37.84 acres with 142 single-family homes to be located near the intersection of North Ramona Boulevard and Ranch View Lane in the city of San Jacinto, CA (the City), which is within the SCAQMD. The project site currently consists of three vacant parcels to be developed with homes, roads, sidewalks, utilities, and open spaces. Since the site is already vacant, site preparation and grading activities are expected to be minimal. Demolition and excavation for underground parking is not required. The site is not near any airports or major freeways. In order to fulfill San Jacinto Community Development Department requirements, an air quality, GHG, construction noise, and energy impact assessment is required.

ASSUMPTIONS

The following basic assumptions were used in developing the emission estimates for the proposed Project using the California Emissions Estimator Model[®] (CalEEMod):

- Some project design features including lot size of residential homes were defined by the Applicant.
- Construction equipment, including hours used, were applied to construction phases of the project.
- No hearths will be installed.
- Low VOC paint will be used.
- Low flow appliances will be used.

- CalEEMod was run using the default construction schedule, comprising five construction phases (grading, site preparation, building construction, and architectural coating).
- During construction exposed soil will be watered twice daily.

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AIR QUALITY AND GREENHOUSE GAS IMPACTS ANALYSES

The Air Quality Section of Appendix G of the California Environmental Quality Act (CEQA) Guidelines (Environmental Checklist Form) contains air quality and GHG significance criteria. Where applicable, quantitative significance criteria established by the local air quality management district (AQMD) may be relied upon to make significance determinations based on mass emissions of criteria pollutants and GHGs, as determined in this report.

Project Emissions Estimation

The construction and operation analysis were performed using CalEEMod® (California Emissions Estimation Model, version 2016.3.2), the official statewide land use computer model designed to provide a uniform platform for estimating potential criteria pollutant and GHG emissions associated with both construction and operations of land use projects under CEQA. The model quantifies direct emissions from construction and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. The mobile source emission factors used in the model – published by the California Air Resources Board (CARB) – include the Pavley standards and Low Carbon Fuel standards. The model also identifies project design features, regulatory measures, and mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the

benefits achieved from the selected measures. CalEEMod was developed by the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the SCAQMD, the Bay Area Air Quality Management District (BAAQMD), the San Joaquin Valley Air Pollution Control District (SJVAPCD), and other California air districts. Default land use data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) were provided by the various California air districts to account for local requirements and conditions. As the official assessment methodology for land use projects in California, CalEEMod is relied upon herein for construction and operational emissions quantification, which forms the basis for the impact analysis.

Based on information received from the Applicant, land use data used for CalEEMod input is presented in Table 1. The SCAQMD quantitative significance thresholds shown in Table 2 were used to evaluate project emissions impacts (SCAQMD 2019).

Table 1: Land Use Data for CalEEMod Input - Golden Ocean, San Jacinto, CA						
Project Element	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage (footprint)	Floor Surface Area
Residential Development	Residential	Single Family Housing	142	Dwelling Unit	25.11	225,600
Roads	Parking	Other Asphalt Surfaces	441	1,000 sqft	10.12	441,000
Landscaping	Parking	Other Non-Asphalt Surfaces	113.46	1,000 sqft	2.60	113,460
Project Site					37.84	780,060

Source: Applicant 2019, CalEEMod version 2016.3.2

Notes:

Electric Utility - Southern California Edison

Table 2: SCAQMD CEQA Thresholds of Significance		
Pollutant	Project Construction	Project Operation
	lbs/day	lbs/day
ROG (VOC)	75	55
NO _x	100	55
CO	550	550
SO _x	150	150
PM ₁₀	150	150
PM _{2.5}	55	55
24-hour PM _{2.5} Increment	10.4 µg/m ³	2.5 µg/m ³
24-hour PM ₁₀ Increment	10.4 µg/m ³	2.5 µg/m ³
Annual PM ₁₀ Increment	1.0 µg/m ³ annual average	
1-hour NO ₂ Increment	0.18 ppm (state)	
Annual NO ₂ Increment	0.03 ppm (state) & 0.0534 ppm (federal)	
1-hour SO ₂ Increment	0.25 ppm (state) & 0.075 ppm (federal – 99th percentile)	
24-hour SO ₂ Increment	0.04 ppm (state)	
24-hour Sulfate Increment	25 ug/m ³ (state)	
1-hour CO Increment	20 ppm (state) & 35 ppm (federal)	
8-hour CO Increment	9.0 ppm (state/federal)	
Toxic Air Contaminants (including carcinogens and non-carcinogens)	Maximum Incremental Cancer Risk ≥10 in 1 million	
	Cancer Burden >0.5 excess cancer cases (in areas ≥1 in 1 million)	
	Chronic & Acute Hazard Index ≥1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to Rule 402	
Greenhouse Gases	10,000 MT/yr CO ₂ e for industrial facilities	
	3,000 MT/yr CO ₂ e for land use projects (draft proposal)	

Source: SCAQMD 2019, 2008b

Criteria Pollutants from Project Construction

A project's construction phase produces many types of emissions, generally PM₁₀ (including PM_{2.5}) in fugitive dust and diesel engine exhaust are the pollutants of greatest concern. Construction-related emissions can cause substantial increases in localized concentrations of PM₁₀, as well as affecting PM₁₀ compliance with ambient air quality standards on a regional basis. The use of diesel-powered construction equipment emits ozone precursors oxides of nitrogen (NO_x) and reactive organic gases (ROG), and diesel particulate matter (DPM); however, the use of diesel-powered equipment would be minimal. Use of architectural coatings and other materials associated with finishing buildings may also emit ROG and TACs. CEQA significance thresholds address the impacts of construction activity emissions on local and regional air quality. Thresholds are also provided for other potential impacts related to project construction, such as odors and TACs.

The SCAQMD's approach to CEQA analyses of fugitive dust impacts is to require implementation of effective and comprehensive dust control measures rather than to require detailed quantification

of emissions; however, due to the nature of project construction, which includes no earth moving activities, it is not necessary to implement any fugitive dust control Best Management Practices (BMPs).

Criteria Pollutants from Project Operation

The term “project operations” refers to the full range of activities that can or may generate criteria pollutant, GHG, and TAC emissions when the project is functioning in its intended use. For projects, such as office parks, shopping centers, apartment buildings, residential subdivisions, and other indirect sources, motor vehicles traveling to and from the project represents the primary source of air pollutant emissions. For industrial projects and some commercial projects, equipment operation and manufacturing processes, i.e., permitted stationary sources, can be of greatest concern from an emissions standpoint. CEQA significance thresholds address the impacts of operational emission sources on local and regional air quality. Thresholds are also provided for other potential impacts related to project operations, such as odors.

Results of Criteria Emissions Analyses

Table 3 shows unmitigated and mitigated criteria construction emissions and evaluates mitigated emissions against SCAQMD significance thresholds.

Table 4 shows unmitigated and mitigated criteria operational emissions and evaluates mitigated emissions against SCAQMD significance thresholds.

As shown in Tables 3 and 4, mass emissions of criteria pollutants from construction and operation are below applicable SCAQMD significance thresholds, i.e., Less Than Significant (LTS) or Less Than Significant with Mitigation Incorporated (LTSM) .

PROJECTED IMPACT: Less Than Significant

ADDITIONAL MITIGATION: None required

Table 3: Construction Emissions Summary and Significance Evaluation				
Criteria Pollutants	Unmitigated	Mitigated	Threshold	Significance
	lbs/day	lbs/day	lbs/day	
ROG (VOC)	32.3	32.3	75	LTS
NO _x	46.5	46.5	100	LTS
CO	31.6	31.6	550	LTS
SO _x	0.1	0.1	150	LTS
Total PM ₁₀	20.3	9.3	150	LTS
Total PM _{2.5}	11.9	5.8	55	LTS

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

lbs/day are winter or summer maxima for planned land use

Total PM₁₀ / PM_{2.5} comprises fugitive dust plus engine exhaust

LTS - Less Than Significant

Table 4: Operational Emissions Summary and Significance Evaluation				
Criteria Pollutants	Unmitigated	Mitigated	Threshold	Significance
	lbs/day	lbs/day	lbs/day	
ROG (VOC)	45.5	8.2	55	LTS
NO _x	13.6	10.6	55	LTS
CO	111.4	39.1	550	LTS
SO _x	0.3	0.1	150	LTS
Total PM ₁₀	21.3	10.5	150	LTS
Total PM _{2.5}	13.8	3.0	55	LTS

Sources: SCAQMD 2015, CalEEMod version 2016.3.2

Notes:

lbs/day are winter or summer maxima for planned land use

Total PM₁₀ / PM_{2.5} comprises fugitive dust plus engine exhaust

LTS - Less Than Significant

Localized Significance Threshold Analysis

The SCAQMD's Localized Significance Threshold (LST) methodology (2008a) was used to analyze the neighborhood scale impacts of NO_x, CO, PM₁₀, and PM_{2.5} associated with project-specific mass emissions. Introduced in 2003, the LST methodology was revised in 2008 to include the PM_{2.5} significance threshold methodology and update the LST mass rate lookup tables for the new 1-hour NO₂ standard.

For determining localized air quality impacts from small projects in a defined geographic source-receptor area (SRA), the LST methodology provides mass emission rate lookup tables for 1-acre, 2-acre, and 5-acre parcels by SRA. The tabulated LSTs represent the maximum mass emissions from a project that will not cause or contribute to an exceedance of state or national ambient air quality standards (CAAQS or NAAQS) for the above pollutants and were developed based on ambient concentrations of these pollutants for each SRA in the South Coast Air Basin. (SCAQMD 2008a)

The proposed Project site is 37.84 acres in source-receptor area Zone 28 – Hemet/San Jacinto Valley. The 5-acre screening lookup tables were used to evaluate NO_x, CO, PM₁₀, and PM_{2.5} impacts on nearby receptors. The nearest receptor is approximately 50 meters away from the site. Therefore, the impact evaluation was performed using 50 meters for construction and operation. For operational mobile sources (e.g., residents' and workers' personal vehicles and deliveries), localized fugitive road dust (PM₁₀/PM_{2.5}) impacts nearest to the project site were evaluated against the LST thresholds. (SCAQMD 2008a)

Results of Localized Significance Threshold Analysis

The LST results provided in Tables 5 and 6 show that on-site emissions from construction and operations would meet the LST passing criteria at the nearest receptors (50 meters). Thus, impacts would be less than significant.

PROJECTED IMPACT: Less Than Significant

ADDITIONAL MITIGATION: None required

Table 5: Construction Localized Significance Threshold Evaluation				
Criteria Pollutants	Mitigated	Threshold	Percent of Threshold	Result
	lbs/day	lbs/day		
NO _x	46.5	416	11%	Pass
CO	31.6	2,714	1%	Pass
PM ₁₀	9.3	40	23%	Pass
PM _{2.5}	5.8	10	58%	Pass

Sources: SCAQMD 2008a, CalEEMod version 2016.3.2

Notes:

Source-receptor area Zone 28 – Hemet/San Jacinto Valley

5-acre area, 50 meters to receptor

Table 6: Operations Localized Significance Threshold Evaluation				
Criteria Pollutants	Mitigated	Threshold	Percent of Threshold	Result
	lbs/day	lbs/day		
NO _x	10.6	416	3%	Pass
CO	39.1	2,714	1%	Pass
PM ₁₀	1.1	10	11%	Pass
PM _{2.5}	0.3	3	11%	Pass

Sources: SCAQMD 2008a, CalEEMod version 2016.3.2

Notes:

Source-receptor area Zone 28 – Hemet/San Jacinto Valley

5-acre area, 50 meters to receptor

Greenhouse Gas Emissions from Construction and Operation

Greenhouse gases – primarily carbon dioxide (CO₂), methane (CH₄), and nitrous (N₂O) oxide, collectively reported as carbon dioxide equivalents (CO₂e) – are directly emitted from stationary source combustion of natural gas in equipment such as water heaters, boilers, process heaters, and furnaces. GHGs are also emitted from mobile sources such as on-road vehicles and off-road construction equipment burning fuels such as gasoline, diesel, biodiesel, propane, or natural gas (compressed or liquefied). Indirect GHG emissions result from electric power generated elsewhere (i.e., power plants) used to operate process equipment, lighting, and utilities at a facility. Also, included in GHG quantification is electric power used to pump the water supply (e.g., aqueducts, wells, pipelines) and disposal and decomposition of municipal waste in landfills. (CARB 2017)

California's Building Energy Efficiency Standards are updated on an approximately three-year cycle. The 2019 standards improved upon the 2016 standards for new construction of, and additions and alterations to, residential, commercial, and industrial buildings. The 2019 standards went into effect on January 1, 2020 (CEC 2019).

Since the Title 24 standards require energy conservation features in new construction (e.g., high-efficiency lighting, high-efficiency heating, ventilating, and air-conditioning (HVAC) systems,

thermal insulation, double-glazed windows, water conserving plumbing fixtures, etc.), they indirectly regulate and reduce GHG emissions.

Using CalEEMod, direct onsite and offsite GHG emissions were estimated for construction and operation, and indirect offsite GHG emissions were estimated to account for electric power used by the proposed Project, water conveyance, and solid waste disposal.

Results of Greenhouse Gas Emissions Analyses

The SCAQMD officially adopted an industrial facility mass emissions threshold of 10,000 metric tons (MT) CO₂e per year (SCAQMD 2019) and has proposed a draft residential/commercial mass emissions threshold of 3,000 metric tons (MT) CO₂e per year. (SCAQMD 2008b)

Table 7 shows unmitigated and mitigated GHG emissions and evaluates mitigated emissions against SCAQMD significance thresholds. Operational mitigation measures incorporate typical code-required energy and water conservation features. Off-site traffic impacts are included in these emissions estimates, along with construction emissions amortized over 30 years.

As shown in Table 7, mitigated GHG emissions are below the proposed GHG significance threshold for land use projects, i.e., Less Than Significant (LTS).

PROJECTED IMPACT: Less Than Significant

ADDITIONAL MITIGATION: None required

Table 7: Greenhouse Gas Emissions Summary and Significance Evaluation				
Greenhouse Gases	Unmitigated	Mitigated	Threshold	Significance
	MT/yr	MT/yr	MT/yr	
CO ₂	2,324	2,250	—	—
CH ₄	2.2	2.1	—	—
N ₂ O	0.0	0.0	—	—
CO ₂ e	2,383	2,306	3,000	LTS

Sources: SCAQMD 2008b, CalEEMod version 2016.3.2

Notes:

Comprises annual operational emissions plus construction emissions amortized over 30 years

LTS - Less Than Significant

NOISE IMPACTS ANALYSES

Noise Analysis Methodology

The screening-level noise analysis for Project construction was completed based on methodology developed by the U.S. Department of Transportation Federal Highway Administration (DOT FHWA) at the John A. Volpe National Transportation Systems Center and other technical references consistent with CalEEMod™ outputs (equipment utilization). The DOT FHWA methodology uses actual noise measurement data collected during the Boston “Big Dig” project (1991-2006) as reference levels for a wide variety of construction equipment in common use, such as on the proposed Project. This noise analysis did not include field measurements of ambient noise in the vicinity of the Project site.

The FHWA noise model provides relatively conservative predictions because it does not account for site-specific geometry, dimensions of nearby structures, and local environmental conditions that can affect sound transmission, reflection, and attenuation. As a result, actual measured sound levels at receptors may vary somewhat from predictions, typically lower. Additionally, the impacts of noise upon receptors (persons) are subjective because of differences in individual sensitivities and perceptions.

Noise impacts were evaluated against community noise standards contained in the City or County General Plan or other state or federal agency as applicable to the vicinity of the Project site. For this Project, the City of San Jacinto General Plan Noise Element contains the applicable evaluation criteria.

During construction activities, the Project would generate noise due to operation of minimal off-road equipment, portable equipment, and vehicles at or near the Project site. No significant increase in traffic is expected due to this relatively small project. No strong sources of vibrations are planned to be used during construction activities.

Since the Project is near an urban street, the incremental effect of Project operation (possible slightly increased traffic) would not be quantifiable against existing traffic noise (background) in the Project vicinity (i.e., less than significant impact). Also, since no public or private use airport is closer than 2 miles from the Project site, an evaluation of aircraft noise upon persons residing or working in the Project area is not required.

Environmental Setting

Noise Descriptors

Noise is typically described as any dissonant, unwanted, or objectionable sound. Sound is technically described in terms of the loudness (amplitude) and frequency (pitch) of the sound. The standard unit of measurement of the loudness of sound is the decibel (dB). Because the human ear is not equally sensitive to sound at all frequencies, a special frequency-dependent rating scale has been devised to relate noise to human sensitivity, the A-weighted decibel scale (dBA). Table 8 lists common sources of sound and their intensities in dBA.

Table 8: Typical Sound Level Characteristics		
Pressure	Level	Sound Level Characteristic
N/m²	dBA	
2000	160	Rocket Launch
600	150	Military Jet Plane Takeoff
200	140	Threshold of Pain
60	130	Commercial Jet Plane Takeoff
20	120	Industrial Chipper or Punch Press
6	110	Loud Automobile Horn
2	100	Passing Diesel Truck – Curb Line
0.6	90	Factory - Heavy Manufacturing
0.2	80	Factory - Light Manufacturing
0.06	70	Open Floor Office - Cubicles
0.02	60	Conversational Speech
0.006	50	Private Office - Walled
0.002	40	Residence in Daytime
0.0006	30	Bedroom at Night
0.0002	20	Recording or Broadcasting Studio
0.00006	10	Threshold of Good Hearing - Adult
0.00002	0	Threshold of Excellent Hearing - Child

Sources: Broch 1971, Plog 1988

Notes:

Reference Level $P_0 = 0.00002 \text{ N/m}^2 = 0.0002 \text{ } \mu\text{bar}$

N/m^2 = Newtons per square meter (the Newton is the unit of force derived in the metric system); it is equal to the amount of net force required to accelerate one kilogram of mass at a rate of one meter per second squared ($1 \text{ kg} \cdot 1 \text{ m/s}^2$) in the direction of the applied force.

In most situations, a 3-dBA change in sound pressure is considered a “just-detectable” difference. A 5-dBA change (either louder or quieter) is readily noticeable, and 10-dBA change is a doubling (if louder) or halving (if quieter) of the subjective loudness. Sound from a small, localized source (a “point” source) radiates uniformly outward as it travels away from the source in a spherical pattern. The sound level attenuates (drops off) at a rate of 6 dBA for each doubling of the distance.

The duration of noise and the time period at which it occurs are important factors in determining the impact of noise on sensitive receptors. A single number called the equivalent continuous noise level (L_{eq}) may be used to describe sound that is changing in level. It is also used to describe the acoustic range of the noise source being measured, which is accomplished through the maximum L_{eq} (L_{max}) and minimum L_{eq} (L_{min}) indicators.

In determining the daily measure of community noise, it is important to account for the difference in human response to daytime and nighttime noise. Noise is more disturbing at night than during the day, and noise indices have been developed to account for the varying duration of noise events over time, as well as community response to them. The Community Noise Equivalent Level (CNEL) adds a 5-dB penalty to the “nighttime” hourly noise levels (HNLs) (i.e., 7:00 p.m. to 10:00

p.m.) and the Day-Night Average Level (L_{dn}) adds a 10-dB penalty to the evening HNLs (Caltrans 2013, FTA 2006).

Vibration Descriptors

Vibration is a unique form of noise because its energy is carried through structures and the earth, whereas noise is carried through the air. Thus, vibration is generally felt rather than heard. Typically, ground borne vibration generated by manmade activities attenuates rapidly as distance from the source of the vibration increases. Actual human and structural response to different vibration levels is influenced by a combination of factors, including soil type, distance between the source and receptor, duration, and the number of perceived events.

While not a direct health hazard, the energy transmitted through the ground as vibration may result in structural damage, which may be costly to repair and dangerous in the event of structural failure. To assess the potential for structural damage associated with vibration, the vibratory ground motion in the vicinity of the affected structure is measured in terms of point peak velocity/peak particle velocity (PPV) in the vertical and horizontal directions (vector sum). A freight train passing at 100 feet may cause PPVs of 0.1 inch per second, while a strong earthquake may produce PPVs in the range of 10 inches per second. Minor cosmetic damage to buildings may begin in the range of 0.5 inch per second (Caltrans 2013, FTA 2006).

Regulatory Setting

California

The State of California does not promulgate statewide standards for environmental noise but requires each city and county to include a noise element in its general plan [California Government Code Section 65302(f)]. In addition, Title 4 of the CCR has guidelines for evaluating the compatibility of various land uses as a function of community noise exposure. In general, the guidelines require that community noise standards:

- Protect residents from the harmful and annoying effects of exposure to excessive noise;
- Prevent incompatible land uses from encroaching upon existing or programmed land uses likely to create significant noise impacts; and
- Encourage the application of state-of-the-art land use planning methodologies in the area of managing and minimizing potential noise conflicts.

Construction vibration is regulated at the state level in accordance with standards established by the *Transportation and Construction-Induced Vibration Guidance Manual* issued by Caltrans in 2004. Continuous sources include the use of vibratory compaction equipment and other construction equipment that creates vibration other than in single events. Transient sources create a single isolated vibration event, such as blasting. Thresholds for continuous sources are 0.5 and 0.1 inch per second PPV for structural damage and annoyance, respectively. Thresholds for transient sources are 1.0 and 0.9 PPV for structural damage and annoyance, respectively (Caltrans 2013).

City of San Jacinto General Plan – Noise Element

For this Project, the Noise Element of the City of San Jacinto General Plan contains the applicable evaluation criteria. The Construction Standards section of the noise element contains the applicable

standards for this project. The proposed Project can be characterized as a new residential development on a vacant plot of land. Most noise would occur during the grading, site preparation and building construction when heavy equipment would be operating.

During each of the five construction phases there would be a different mix of equipment operating and cumulative noise levels would vary based on the amount of equipment in operation and the location of each activity at the Project site. In general, use of off-road equipment and portable equipment would generate noise due to engine mechanicals, engine exhaust, driveline mechanicals, shaft-driven devices and accessories, hydraulics operation, ground friction and displacement, and gravity drops (dumping, unloading).

Since no intense percussive actions (e.g., hard rock-breaking, large pile-driving) are planned to occur during the site work, no strong ground-borne vibrations are expected to be generated that could affect nearby structures or be noticeable to their occupants.

The Project is expected to require up to approximately 44 months of planned work activities (i.e., from mobilization to substantial completion) comprising five construction phases:

- 1) Site Preparation
- 2) Grading
- 3) Building construction
- 4) Paving
- 5) Architectural coating.

The proposed Project is located an average distance of about 150 meters (500 feet) from the central construction zone. All proposed construction activities for the project will take place in daylight during regular business hours. Construction is not expected to occur between the hours of 6:00 pm and 7:00 am for the duration of the project. Deviations from this operating schedule would not affect the noise analysis because noise does not persist or accumulate in the environment.

Results of Construction Screening Noise Analysis

Types of equipment (FHWA 2006) to be used during the Project and noise-emitting characteristics (i.e., usage factors, reference dBA, and percussive source) are shown in Table 9 consistent with CalEEMod outputs (Attachment 1).

The City of San Jacinto General Plan Noise Element (City 2006), contains noise standards for residential living spaces. For residential living spaces, an indoor CNEL limit (threshold) of 45 dB[A] is considered acceptable. Table 10 shows a comparison of FHWA screening-level estimated daytime interior noise impacts for peak construction activities at nearby receptors with respect to the threshold. If the threshold is not exceeded, then a project should be considered acceptable, i.e., Less Than Significant.

Table 9: FHWA Noise Reference Levels and Usage Factors							
CalEEMod Construction Detail			FHWA Equipment Type	Ref.	Usage Factor	Ref. Level	Percussive Source
Phase Name	Equipment Description	Qty.			percent	dBA	Yes/No
Site Preparation (1)	Rubber Tired Dozers	3	Tractor (rubber tire)	1	40%	84	No
	Tractors/Loaders/Backhoes	4	Backhoe (with loader)	1	40%	80	No
Grading (2)	Excavators	2	Excavator (hydraulic)	1	40%	85	No
	Graders	1	Grader	1	40%	85	No
	Rubber Tired Dozers	1	Tractor (rubber tire)	1	40%	84	No
	Scrapers	2	Scraper	1	40%	85	No
	Tractors/Loaders/Backhoes	2	Backhoe (with loader)	1	40%	80	No
Building Construction (3)	Cranes	1	Crane	1	16%	85	No
	Forklifts	3	Forklift	1	40%	80	No
	Generator Sets	1	Generator (<25 KVA quiet design)	1	50%	70	No
	Tractors/Loaders/Backhoes	3	Backhoe (with loader)	1	40%	80	No
	Welders	1	Welding Machine (arc welding)	1	50%	70	No
Paving (4)	Pavers	2	Paver (asphalt)	1	50%	85	No
	Paving Equipment	2	Pavement Scarifier	1	20%	85	No
	Rollers	2	Roller	1	20%	85	No
Architectural Coating (5)	Air Compressors	1	Compressor (air)	1	40%	80	No

Source: CalEEMod v 2016.3.2, FHWA 2006

Table 10: Estimated Peak Activity Daytime Noise Impacts - Residential Receptors (mitigated)			
Construction Phases	Normal Acceptance Criteria (Residential Interior)		
	Modeled Noise Level (L_{eq} dBA)^a	Significance Threshold (CNEL dBA)^b	Exceeds Threshold (Yes/No)?
Background	40.2	45	No
Site Preparation	43.4	45	No
Grading	44.9	45	No
Building Construction	42.6	45	No
Paving	43.9	45	No
Architectural Coating	40.6	45	No
Long-Term Impact	40.2	45	No

Sources: CalEEMod v2013.2.2, FHWA 2006, Broch 1971, Plog 1988, City 2017

Notes:

^a Includes existing street traffic and ambient noise sources (cumulative impacts)

^b Refer to applicable City or County General Plan Noise Element and Municipal Code Noise Ordinance for thresholds

Operational Noise

Upon completion of construction and occupancy of the proposed Project, on-site operational noise would be generated mainly by residential-grade heating, ventilation, and air conditioning (HVAC) equipment installed on the new buildings. However, the overall noise levels generated by the new HVAC equipment are not expected to be substantially greater than generated by older HVAC equipment installed on existing buildings near the Project site. As such, the new HVAC equipment associated with the proposed Project would not represent a substantially new type or source of noise in the general vicinity.

The proposed residential Project would not be a source of industrial noise. No adverse impacts are expected from, and no special noise mitigation measures would be required for, the operation of the proposed Project. Therefore, the operational noise impacts of the proposed Project would be less than significant.

Interior areas of the completed Project would not be adversely impacted by ambient (outdoor) urban noise because the Project would be constructed to meet applicable California Code of Regulations (CCR) Title 24 Parts 6 and 11 building energy efficiency standards (CEC 2019). Thermal insulation, e.g., fiberglass batting in exterior walls and double-pane windows, also attenuates sound transmission and thus would provide an acceptable interior noise environment, which is particularly important for sensitive land uses. Specifically, the proposed Project would be designed and constructed to maintain interior noise levels at or below a CNEL of 45 dBA in any normally occupied space of the Project with no other sources of interior noise operating, such as HVAC, appliances, power tools, or office equipment. As such, interior noise impacts of the proposed Project would be less than significant.

Conclusions

This study predicts a less than significant impact in accordance with the City of San Jacinto's General Plan. Would the project result in:

- a) *Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

No. As shown in the above analysis, temporary construction noise would be limited to daylight hours and would permanently cease upon completion of construction. Aggregated average construction noise is not expected to exceed 45 dBA at nearby residential receptors (interiors), which is below the unacceptable range. Operational noise sources for residential buildings, such as new residential-grade HVAC equipment, are of quiet design per commercial standards.

- b) *Generation of excessive groundborne vibration or groundborne noise levels?*

No. The proposed single family home foundations will be standard concrete slab design on a flat site. Only shallow excavation, trenching, and grading will be required for the foundations and utilities. Construction plans do not include intense percussive actions (e.g., hard rock-breaking, large pile-driving). Therefore, no strong ground-borne vibrations are expected to be generated that could affect nearby structures or be noticeable to their occupants.

PROJECTED IMPACT: Less Than Significant

ADDITIONAL MITIGATION: None Required

ENERGY IMPACTS ANALYSIS

The CalEEMod output was used to determine the energy impacts of the proposed project. An analysis was done for each of the construction and operational phases of the project. For this analysis, fuel use is reported in millions of British Thermal Units (mmBTU) per year, and electricity use is reported in kilowatt-hours (kWh) per year.

Energy impacts in the construction phase are from fuel used by construction equipment and commuter vehicles driven by construction workers. The amount of fuel used was back-calculated based on CalEEMod mobile source CO₂ emissions by dividing these emissions the CO₂ emission factor for diesel fuel in EPA's greenhouse gas regulation (40 CFR 98 Subpart C, Table C-1). The energy impacts from construction activities are summarized in Table 11.

Energy impacts in the operational phase are from fuel used by residents at the development, fuel used by household appliances, fuel used for landscaping equipment, electricity used by residents at the development, and electricity used to transport and treat water used by residents at the facility. The energy impacts from the operational phase are provided in Table 13 and Table 14.

The amount of fuel used was back-calculated based on CalEEMod mobile source and landscaping equipment CO₂ emissions by dividing these emissions by the CO₂ emission factor for gasoline fuel in EPA's greenhouse gas regulation (40 CFR 98 Subpart C, Table C-1). The amount of natural gas used by residents is provided directly in the CalEEMod output.

The electricity used by residents is provided directly in the CalEEMod output. The electricity use for water used by residents is calculated from the CalEEMod water use and CalEEMod energy intensity factors for water supply, water treatment, water distribution, and wastewater treatment.

Table 11: Fuel Use Requirements for Construction				
Year	Source	CO2 Emissions (MT/yr)	Emission Factor (kg CO2/MMBTU)¹	Annual Energy Requirement (MMBTU/yr)
2021	Mobile Equipment	85	73.96	1,156
2022	Mobile Equipment	97	73.96	1,318
2023	Mobile Equipment	95	73.96	1,288
2024	Mobile Equipment	31	73.96	425

Notes:

Emission factor is from 40 CFR 98 Table C-1 for "Distillate Fuel Oil No. 2"

Table 12: Fuel Use Requirements for Operations			
Source	CO2 Emissions (MT/yr)	Emission Factor (kg CO2/MMBTU)¹	Annual Energy Use (MMBTU/yr)
Mobile Sources	1,756	70.22	25,010
Energy - Natural Gas	-	-	3,996
Area - Landscaping	2.41	70.22	34
Total, Fuel Use	-	-	29,040

Notes:

Emission factors are from 40 CFR 98 Table C-1 for "Motor Gasoline" and "Natural Gas"

Natural gas energy is directly from CalEEMod output.

Table 13: Electricity Requirements for Operations				
Source	CalEEMod Throughput	CalEEMod Throughput Units	Energy Intensity Factor (kWh/yr/Unit)	Annual Energy Use (kWh/yr)
Energy - Electricity	1,201,380	kWh/yr	1	1,201,380
Water - Indoor	7.40	Mgal	13,021	96,375
Water - Outdoor	5.48	Mgal	11,110	60,848
Total, Electricity	-	-	-	1,358,603

Golden Ocean Realty, LLC

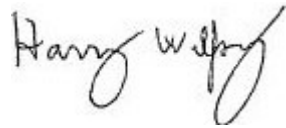
November 24, 2020

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CLOSING

Thank you very much for the opportunity to be of assistance to Golden Ocean Realty, LLC. Should you have any questions, please contact me at (949) 563-4479 (mobile) or Bradford Boyes at (805) 217-4947 (mobile).

Sincerely,



Harry Wilfong | San Juan Capistrano Office

Engineer

Yorke Engineering, LLC

HWilfong@YorkeEngr.com

cc: Bradford Boyes, Yorke Engineering, LLC

Enclosures/Attachments:

1. CalEEMod Outputs

AIR QUALITY AND GHG REFERENCES

California Air Resources Board (CARB). 2017. California's 2017 Climate Change Scoping Plan. Website (<https://ww3.arb.ca.gov/cc/scopingplan/scopingplan.htm>) accessed October 16, 2020.

California Department of Resources Recycling and Recovery (CalRecycle). 2016. Solid Waste Cleanup Program Weights and Volumes for Project Estimates. Website (<https://www.calrecycle.ca.gov/swfacilities/cdi/Tools/Calculations>) accessed October 16, 2020.

California Emissions Estimation Model (CalEEMod™). 2016. Version 2016.3.2. Website (<http://www.caleemod.com/>) accessed October 16, 2020.

California Energy Commission (CEC). 2019. Building Energy Efficiency Program. Website (<https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards>) accessed October 16, 2020.

South Coast Air Quality Management District (SCAQMD). 2019. Air Quality Significance Thresholds. Website (<http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>) accessed October 16, 2020.

South Coast Air Quality Management District (SCAQMD). 2008a. Localized Significance Threshold Methodology. Website (<http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-1st-methodology-document.pdf?sfvrsn=2>) accessed October 16, 2020.

South Coast Air Quality Management District (SCAQMD). 2008b. Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans. Website ([http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/ghgboardsynopsis.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgboardsynopsis.pdf?sfvrsn=2)) accessed October 16, 2020.

NOISE REFERENCES

Broch, Jens. 1971. Acoustic Noise Measurements. Bruel & Kjaer.

California Department of Transportation (Caltrans). 2013. Transportation and Construction Vibration Guidance Manual. Website (<https://cityofdavis.org/home/showdocument?id=4521>) accessed October 16, 2020.

City of San Jacinto (City). 2006. General Plan, Noise Element. Website (https://www.sanjacintoca.gov/city_departments/community-development/general-plan) accessed November 10, 2020.

U.S. Department of Transportation – Federal Highway Administration (FHWA). 2006. Roadway Construction Noise Model User’s Guide. Website (https://www.fhwa.dot.gov/Environment/noise/construction_noise/rcnm/) accessed October 16, 2020.

U.S. Department of Transportation – Federal Transit Authority (FTA). 2006. Transit Noise and Vibration Impact Assessment. Website (https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FTA_Noise_and_Vibration_Manual.pdf) accessed October 16, 2020.

ATTACHMENT 1 – CALEEMOD OUTPUTS

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

142 Single-Family Home Residential Development in San Jacinto, CA
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	441.00	1000sqft	10.12	441,000.00	0
Other Non-Asphalt Surfaces	113.46	1000sqft	2.60	113,460.00	0
Single Family Housing	142.00	Dwelling Unit	25.11	255,600.00	406

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Project specifications
- Construction Phase -
- Construction Off-road Equipment Mitigation -
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblLandUse	LotAcreage	46.10	25.11

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	4.2756	46.4546	31.6319	0.0855	18.2675	2.0459	20.3134	9.9840	1.8823	11.8663	0.0000	8,586.2371	8,586.2371	1.9488	0.0000	8,608.1190
2022	3.1074	25.9145	28.5240	0.0842	3.8529	0.8494	4.7022	1.0372	0.7989	1.8361	0.0000	8,449.2963	8,449.2963	0.8566	0.0000	8,470.7101
2023	2.8364	22.2754	27.4230	0.0822	3.8529	0.7300	4.5829	1.0372	0.6866	1.7238	0.0000	8,250.3294	8,250.3294	0.8234	0.0000	8,270.9151
2024	32.2643	21.2599	26.6852	0.0811	3.8529	0.6432	4.4961	1.0372	0.6047	1.6419	0.0000	8,144.9860	8,144.9860	0.8119	0.0000	8,165.2838
Maximum	32.2643	46.4546	31.6319	0.0855	18.2675	2.0459	20.3134	9.9840	1.8823	11.8663	0.0000	8,586.2371	8,586.2371	1.9488	0.0000	8,608.1190

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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	43.3034	3.0816	83.9749	0.1849		10.9123	10.9123		10.9123	10.9123	1,330.1024	2,577.2158	3,907.3182	3.9871	0.0903	4,033.8995
Energy	0.1284	1.0970	0.4668	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3717	1,400.3717	0.0268	0.0257	1,408.6934
Mobile	2.0193	9.2666	26.9349	0.1137	10.2230	0.0783	10.3013	2.7347	0.0727	2.8075		11,600.7604	11,600.7604	0.4842		11,612.8649
Total	45.4511	13.4452	111.3766	0.3055	10.2230	11.0793	21.3023	2.7347	11.0737	13.8084	1,330.1024	15,578.3479	16,908.4503	4.4982	0.1160	17,055.4578

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	6.0943	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651	0.0000	21.2158	21.2158	0.0205	0.0000	21.7287
Energy	0.1181	1.0089	0.4293	6.4400e-003		0.0816	0.0816		0.0816	0.0816		1,287.9336	1,287.9336	0.0247	0.0236	1,295.5871
Mobile	2.0193	9.2666	26.9349	0.1137	10.2230	0.0783	10.3013	2.7347	0.0727	2.8075		11,600.7604	11,600.7604	0.4842		11,612.8649
Total	8.2317	10.4108	39.1248	0.1207	10.2230	0.2250	10.4480	2.7347	0.2194	2.9542	0.0000	12,909.9098	12,909.9098	0.5294	0.0236	12,930.1807

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

	ROG	NOx	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	81.89	22.57	64.87	60.49	0.00	97.97	50.95	0.00	98.02	78.61	100.00	17.13	23.65	88.23	79.64	24.19

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2021	2/12/2021	5	30	
2	Grading	Grading	2/13/2021	5/28/2021	5	75	
3	Building Construction	Building Construction	5/29/2021	3/29/2024	5	740	
4	Paving	Paving	3/30/2024	6/14/2024	5	55	
5	Architectural Coating	Architectural Coating	6/15/2024	8/30/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 12.72

Residential Indoor: 517,590; Residential Outdoor: 172,530; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 33,268 (Architectural Coating – sqft)

OffRoad Equipment

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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

Trips and VMT

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	284.00	106.00	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	57.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
Total	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			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	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
Total	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666

3.3 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230		6,007.0434	6,007.0434	1.9428		6,055.6134

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.3 Grading - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	3.3826	1.9853	5.3679	1.4026	1.8265	3.2292	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.3 Grading - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
Total	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296

3.4 Building Construction - 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					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.4 Building Construction - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2950	10.1098	2.3991	0.0271	0.6784	0.0204	0.6988	0.1953	0.0195	0.2148		2,887.8478	2,887.8478	0.1747		2,892.2150
Worker	1.1988	0.7775	10.6990	0.0316	3.1745	0.0234	3.1978	0.8419	0.0215	0.8634		3,145.0254	3,145.0254	0.0846		3,147.1398
Total	1.4938	10.8873	13.0980	0.0586	3.8529	0.0437	3.8966	1.0372	0.0410	1.0782		6,032.8732	6,032.8732	0.2593		6,039.3548

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.4 Building Construction - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2950	10.1098	2.3991	0.0271	0.6784	0.0204	0.6988	0.1953	0.0195	0.2148		2,887.8478	2,887.8478	0.1747		2,892.2150
Worker	1.1988	0.7775	10.6990	0.0316	3.1745	0.0234	3.1978	0.8419	0.0215	0.8634		3,145.0254	3,145.0254	0.0846		3,147.1398
Total	1.4938	10.8873	13.0980	0.0586	3.8529	0.0437	3.8966	1.0372	0.0410	1.0782		6,032.8732	6,032.8732	0.2593		6,039.3548

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2766	9.5965	2.2673	0.0268	0.6784	0.0176	0.6961	0.1953	0.0169	0.2122		2,862.6267	2,862.6267	0.1682		2,866.8310
Worker	1.1245	0.7023	9.8932	0.0304	3.1745	0.0227	3.1972	0.8419	0.0209	0.8628		3,032.3360	3,032.3360	0.0764		3,034.2469
Total	1.4011	10.2988	12.1606	0.0572	3.8529	0.0403	3.8932	1.0372	0.0378	1.0750		5,894.9627	5,894.9627	0.2446		5,901.0779

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2766	9.5965	2.2673	0.0268	0.6784	0.0176	0.6961	0.1953	0.0169	0.2122		2,862.6267	2,862.6267	0.1682		2,866.8310
Worker	1.1245	0.7023	9.8932	0.0304	3.1745	0.0227	3.1972	0.8419	0.0209	0.8628		3,032.3360	3,032.3360	0.0764		3,034.2469
Total	1.4011	10.2988	12.1606	0.0572	3.8529	0.0403	3.8932	1.0372	0.0378	1.0750		5,894.9627	5,894.9627	0.2446		5,901.0779

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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2064	7.2550	2.0428	0.0260	0.6784	8.1600e-003	0.6866	0.1953	7.8000e-003	0.2031		2,775.7978	2,775.7978	0.1466		2,779.4639
Worker	1.0573	0.6355	9.1362	0.0293	3.1745	0.0221	3.1966	0.8419	0.0204	0.8622		2,919.3217	2,919.3217	0.0689		2,921.0451
Total	1.2637	7.8905	11.1790	0.0552	3.8529	0.0303	3.8831	1.0372	0.0282	1.0653		5,695.1195	5,695.1195	0.2156		5,700.5090

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2064	7.2550	2.0428	0.0260	0.6784	8.1600e-003	0.6866	0.1953	7.8000e-003	0.2031		2,775.7978	2,775.7978	0.1466		2,779.4639
Worker	1.0573	0.6355	9.1362	0.0293	3.1745	0.0221	3.1966	0.8419	0.0204	0.8622		2,919.3217	2,919.3217	0.0689		2,921.0451
Total	1.2637	7.8905	11.1790	0.0552	3.8529	0.0303	3.8831	1.0372	0.0282	1.0653		5,695.1195	5,695.1195	0.2156		5,700.5090

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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2020	7.2370	1.9840	0.0258	0.6784	8.0700e-003	0.6865	0.1953	7.7200e-003	0.2030		2,765.7338	2,765.7338	0.1444		2,769.3428
Worker	1.0006	0.5791	8.5343	0.0283	3.1745	0.0218	3.1963	0.8419	0.0201	0.8620		2,823.5534	2,823.5534	0.0632		2,825.1333
Total	1.2027	7.8161	10.5183	0.0542	3.8529	0.0299	3.8828	1.0372	0.0278	1.0650		5,589.2871	5,589.2871	0.2076		5,594.4761

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2020	7.2370	1.9840	0.0258	0.6784	8.0700e-003	0.6865	0.1953	7.7200e-003	0.2030		2,765.7338	2,765.7338	0.1444		2,769.3428
Worker	1.0006	0.5791	8.5343	0.0283	3.1745	0.0218	3.1963	0.8419	0.0201	0.8620		2,823.5534	2,823.5534	0.0632		2,825.1333
Total	1.2027	7.8161	10.5183	0.0542	3.8529	0.0299	3.8828	1.0372	0.0278	1.0650		5,589.2871	5,589.2871	0.2076		5,594.4761

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4702	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		149.1313	149.1313	3.3400e-003		149.2148
Total	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		149.1313	149.1313	3.3400e-003		149.2148

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4702	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		149.1313	149.1313	3.3400e-003		149.2148
Total	0.0529	0.0306	0.4508	1.5000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		149.1313	149.1313	3.3400e-003		149.2148

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.8827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	32.0635	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.2008	0.1162	1.7129	5.6800e-003	0.6371	4.3800e-003	0.6415	0.1690	4.0300e-003	0.1730		566.6991	566.6991	0.0127		567.0162
Total	0.2008	0.1162	1.7129	5.6800e-003	0.6371	4.3800e-003	0.6415	0.1690	4.0300e-003	0.1730		566.6991	566.6991	0.0127		567.0162

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	31.8827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	32.0635	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.2008	0.1162	1.7129	5.6800e-003	0.6371	4.3800e-003	0.6415	0.1690	4.0300e-003	0.1730		566.6991	566.6991	0.0127		567.0162
Total	0.2008	0.1162	1.7129	5.6800e-003	0.6371	4.3800e-003	0.6415	0.1690	4.0300e-003	0.1730		566.6991	566.6991	0.0127		567.0162

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0193	9.2666	26.9349	0.1137	10.2230	0.0783	10.3013	2.7347	0.0727	2.8075		11,600.7604	11,600.7604	0.4842		11,612.8649
Unmitigated	2.0193	9.2666	26.9349	0.1137	10.2230	0.0783	10.3013	2.7347	0.0727	2.8075		11,600.7604	11,600.7604	0.4842		11,612.8649

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,351.84	1,407.22	1,224.04	4,584,090	4,584,090
Total	1,351.84	1,407.22	1,224.04	4,584,090	4,584,090

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Other Non-Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Single Family Housing	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1181	1.0089	0.4293	6.4400e-003		0.0816	0.0816		0.0816	0.0816		1,287.9336	1,287.9336	0.0247	0.0236	1,295.5871
NaturalGas Unmitigated	0.1284	1.0970	0.4668	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3717	1,400.3717	0.0268	0.0257	1,408.6934

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	11903.2	0.1284	1.0970	0.4668	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3717	1,400.3717	0.0268	0.0257	1,408.6934	
Total		0.1284	1.0970	0.4668	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3717	1,400.3717	0.0268	0.0257	1,408.6934	

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.9474	0.1181	1.0089	0.4293	6.4400e-003		0.0816	0.0816		0.0816	0.0816		1,287.9336	1,287.9336	0.0247	0.0236	1,295.5871
Total		0.1181	1.0089	0.4293	6.4400e-003		0.0816	0.0816		0.0816	0.0816		1,287.9336	1,287.9336	0.0247	0.0236	1,295.5871

6.0 Area Detail

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0943	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651	0.0000	21.2158	21.2158	0.0205	0.0000	21.7287
Unmitigated	43.3034	3.0816	83.9749	0.1849		10.9123	10.9123		10.9123	10.9123	1,330.1024	2,577.2158	3,907.3182	3.9871	0.0903	4,033.8995

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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	0.4804					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.2573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	37.2091	2.9463	72.2144	0.1842		10.8471	10.8471		10.8471	10.8471	1,330.1024	2,556.0000	3,886.1024	3.9666	0.0903	4,012.1708
Landscaping	0.3566	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651		21.2158	21.2158	0.0205		21.7287
Total	43.3034	3.0816	83.9749	0.1849		10.9123	10.9123		10.9123	10.9123	1,330.1024	2,577.2158	3,907.3182	3.9871	0.0903	4,033.8995

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

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	0.4804					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.2573					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	0.3566	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651		21.2158	21.2158	0.0205		21.7287
Total	6.0943	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651	0.0000	21.2158	21.2158	0.0205	0.0000	21.7287

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Summer

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

142 Single-Family Home Residential Development in San Jacinto, CA
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	441.00	1000sqft	10.12	441,000.00	0
Other Non-Asphalt Surfaces	113.46	1000sqft	2.60	113,460.00	0
Single Family Housing	142.00	Dwelling Unit	25.11	255,600.00	406

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Project specifications
- Construction Phase -
- Construction Off-road Equipment Mitigation -
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblLandUse	LotAcreage	46.10	25.11

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	4.2834	46.4598	31.5555	0.0827	18.2675	2.0459	20.3134	9.9840	1.8823	11.8663	0.0000	8,298.8927	8,298.8927	1.9484	0.0000	8,320.9544
2022	3.2293	25.9424	27.7763	0.0814	3.8529	0.8499	4.7028	1.0372	0.7995	1.8367	0.0000	8,169.4361	8,169.4361	0.8636	0.0000	8,191.0267
2023	2.9519	22.2886	26.6678	0.0795	3.8529	0.7304	4.5833	1.0372	0.6870	1.7241	0.0000	7,981.5254	7,981.5254	0.8283	0.0000	8,002.2316
2024	32.2848	21.2698	25.9729	0.0785	3.8529	0.6436	4.4964	1.0372	0.6050	1.6422	0.0000	7,882.8901	7,882.8901	0.8168	0.0000	7,903.3092
Maximum	32.2848	46.4598	31.5555	0.0827	18.2675	2.0459	20.3134	9.9840	1.8823	11.8663	0.0000	8,298.8927	8,298.8927	1.9484	0.0000	8,320.9544

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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	43.3034	3.0816	83.9749	0.1849		10.9123	10.9123		10.9123	10.9123	1,330.1024	2,577.2158	3,907.3182	3.9871	0.0903	4,033.8995
Energy	0.1284	1.0970	0.4668	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3717	1,400.3717	0.0268	0.0257	1,408.6934
Mobile	1.9115	9.4247	25.0706	0.1077	10.2230	0.0786	10.3016	2.7347	0.0730	2.8078		10,997.9796	10,997.9796	0.4839		11,010.0768
Total	45.3433	13.6033	109.5123	0.2995	10.2230	11.0796	21.3026	2.7347	11.0740	13.8087	1,330.1024	14,975.5671	16,305.6695	4.4979	0.1160	16,452.6697

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	6.0943	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651	0.0000	21.2158	21.2158	0.0205	0.0000	21.7287
Energy	0.1181	1.0089	0.4293	6.4400e-003		0.0816	0.0816		0.0816	0.0816		1,287.9336	1,287.9336	0.0247	0.0236	1,295.5871
Mobile	1.9115	9.4247	25.0706	0.1077	10.2230	0.0786	10.3016	2.7347	0.0730	2.8078		10,997.9796	10,997.9796	0.4839		11,010.0768
Total	8.1239	10.5689	37.2604	0.1147	10.2230	0.2253	10.4483	2.7347	0.2197	2.9545	0.0000	12,307.1289	12,307.1289	0.5291	0.0236	12,327.3927

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	82.08	22.31	65.98	61.70	0.00	97.97	50.95	0.00	98.02	78.60	100.00	17.82	24.52	88.24	79.64	25.07

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2021	2/12/2021	5	30	
2	Grading	Grading	2/13/2021	5/28/2021	5	75	
3	Building Construction	Building Construction	5/29/2021	3/29/2024	5	740	
4	Paving	Paving	3/30/2024	6/14/2024	5	55	
5	Architectural Coating	Architectural Coating	6/15/2024	8/30/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 12.72

Residential Indoor: 517,590; Residential Outdoor: 172,530; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 33,268 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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	284.00	106.00	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	57.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
Total	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			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	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
Total	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451

3.3 Grading - 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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230		6,007.0434	6,007.0434	1.9428		6,055.6134

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

3.3 Grading - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	3.3826	1.9853	5.3679	1.4026	1.8265	3.2292	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

3.3 Grading - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
Total	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724

3.4 Building Construction - 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					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

3.4 Building Construction - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3105	10.0778	2.6846	0.0263	0.6784	0.0210	0.6994	0.1953	0.0201	0.2154		2,804.2320	2,804.2320	0.1876		2,808.9227
Worker	1.3098	0.8511	9.6146	0.0295	3.1745	0.0234	3.1978	0.8419	0.0215	0.8634		2,941.2968	2,941.2968	0.0788		2,943.2675
Total	1.6203	10.9289	12.2992	0.0558	3.8529	0.0444	3.8972	1.0372	0.0416	1.0788		5,745.5288	5,745.5288	0.2665		5,752.1901

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

3.4 Building Construction - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3105	10.0778	2.6846	0.0263	0.6784	0.0210	0.6994	0.1953	0.0201	0.2154		2,804.2320	2,804.2320	0.1876		2,808.9227
Worker	1.3098	0.8511	9.6146	0.0295	3.1745	0.0234	3.1978	0.8419	0.0215	0.8634		2,941.2968	2,941.2968	0.0788		2,943.2675
Total	1.6203	10.9289	12.2992	0.0558	3.8529	0.0444	3.8972	1.0372	0.0416	1.0788		5,745.5288	5,745.5288	0.2665		5,752.1901

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2913	9.5582	2.5386	0.0260	0.6784	0.0182	0.6966	0.1953	0.0174	0.2127		2,779.2588	2,779.2588	0.1805		2,783.7712
Worker	1.2318	0.7686	8.8743	0.0285	3.1745	0.0227	3.1972	0.8419	0.0209	0.8628		2,835.8437	2,835.8437	0.0712		2,837.6233
Total	1.5231	10.3268	11.4129	0.0545	3.8529	0.0409	3.8938	1.0372	0.0383	1.0755		5,615.1025	5,615.1025	0.2517		5,621.3945

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2913	9.5582	2.5386	0.0260	0.6784	0.0182	0.6966	0.1953	0.0174	0.2127		2,779.2588	2,779.2588	0.1805		2,783.7712
Worker	1.2318	0.7686	8.8743	0.0285	3.1745	0.0227	3.1972	0.8419	0.0209	0.8628		2,835.8437	2,835.8437	0.0712		2,837.6233
Total	1.5231	10.3268	11.4129	0.0545	3.8529	0.0409	3.8938	1.0372	0.0383	1.0755		5,615.1025	5,615.1025	0.2517		5,621.3945

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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2174	7.2085	2.2448	0.0252	0.6784	8.5500e-003	0.6870	0.1953	8.1800e-003	0.2035		2,696.2336	2,696.2336	0.1563		2,700.1403
Worker	1.1617	0.6952	8.1790	0.0274	3.1745	0.0221	3.1966	0.8419	0.0204	0.8622		2,730.0819	2,730.0819	0.0641		2,731.6852
Total	1.3791	7.9037	10.4238	0.0526	3.8529	0.0307	3.8835	1.0372	0.0285	1.0657		5,426.3154	5,426.3154	0.2204		5,431.8256

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2174	7.2085	2.2448	0.0252	0.6784	8.5500e-003	0.6870	0.1953	8.1800e-003	0.2035		2,696.2336	2,696.2336	0.1563		2,700.1403
Worker	1.1617	0.6952	8.1790	0.0274	3.1745	0.0221	3.1966	0.8419	0.0204	0.8622		2,730.0819	2,730.0819	0.0641		2,731.6852
Total	1.3791	7.9037	10.4238	0.0526	3.8529	0.0307	3.8835	1.0372	0.0285	1.0657		5,426.3154	5,426.3154	0.2204		5,431.8256

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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2127	7.1927	2.1804	0.0251	0.6784	8.4300e-003	0.6868	0.1953	8.0600e-003	0.2034		2,687.0633	2,687.0633	0.1537		2,690.9056
Worker	1.1027	0.6333	7.6257	0.0265	3.1745	0.0218	3.1963	0.8419	0.0201	0.8620		2,640.1280	2,640.1280	0.0587		2,641.5960
Total	1.3154	7.8260	9.8061	0.0516	3.8529	0.0303	3.8831	1.0372	0.0281	1.0653		5,327.1912	5,327.1912	0.2124		5,332.5015

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2127	7.1927	2.1804	0.0251	0.6784	8.4300e-003	0.6868	0.1953	8.0600e-003	0.2034		2,687.0633	2,687.0633	0.1537		2,690.9056
Worker	1.1027	0.6333	7.6257	0.0265	3.1745	0.0218	3.1963	0.8419	0.0201	0.8620		2,640.1280	2,640.1280	0.0587		2,641.5960
Total	1.3154	7.8260	9.8061	0.0516	3.8529	0.0303	3.8831	1.0372	0.0281	1.0653		5,327.1912	5,327.1912	0.2124		5,332.5015

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4702	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

142 Single-Family Home Residential Development in San Jacinto, CA - South Coast AQMD Air District, Winter

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		139.4434	139.4434	3.1000e-003		139.5209
Total	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		139.4434	139.4434	3.1000e-003		139.5209

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4702	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		139.4434	139.4434	3.1000e-003		139.5209
Total	0.0582	0.0335	0.4028	1.4000e-003	0.1677	1.1500e-003	0.1688	0.0445	1.0600e-003	0.0455		139.4434	139.4434	3.1000e-003		139.5209

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.8827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	32.0635	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.2213	0.1271	1.5305	5.3100e-003	0.6371	4.3800e-003	0.6415	0.1690	4.0300e-003	0.1730		529.8848	529.8848	0.0118		530.1795
Total	0.2213	0.1271	1.5305	5.3100e-003	0.6371	4.3800e-003	0.6415	0.1690	4.0300e-003	0.1730		529.8848	529.8848	0.0118		530.1795

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	31.8827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	32.0635	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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
Worker	0.2213	0.1271	1.5305	5.3100e-003	0.6371	4.3800e-003	0.6415	0.1690	4.0300e-003	0.1730		529.8848	529.8848	0.0118		530.1795
Total	0.2213	0.1271	1.5305	5.3100e-003	0.6371	4.3800e-003	0.6415	0.1690	4.0300e-003	0.1730		529.8848	529.8848	0.0118		530.1795

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9115	9.4247	25.0706	0.1077	10.2230	0.0786	10.3016	2.7347	0.0730	2.8078		10,997.97 96	10,997.97 96	0.4839		11,010.07 68
Unmitigated	1.9115	9.4247	25.0706	0.1077	10.2230	0.0786	10.3016	2.7347	0.0730	2.8078		10,997.97 96	10,997.97 96	0.4839		11,010.07 68

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,351.84	1,407.22	1,224.04	4,584,090	4,584,090
Total	1,351.84	1,407.22	1,224.04	4,584,090	4,584,090

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Other Non-Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Single Family Housing	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1181	1.0089	0.4293	6.4400e-003		0.0816	0.0816		0.0816	0.0816		1,287.9336	1,287.9336	0.0247	0.0236	1,295.5871
NaturalGas Unmitigated	0.1284	1.0970	0.4668	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3717	1,400.3717	0.0268	0.0257	1,408.6934

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	11903.2	0.1284	1.0970	0.4668	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3717	1,400.3717	0.0268	0.0257	1,408.6934	
Total		0.1284	1.0970	0.4668	7.0000e-003		0.0887	0.0887		0.0887	0.0887		1,400.3717	1,400.3717	0.0268	0.0257	1,408.6934	

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.9474	0.1181	1.0089	0.4293	6.4400e-003		0.0816	0.0816		0.0816	0.0816		1,287.9336	1,287.9336	0.0247	0.0236	1,295.5871
Total		0.1181	1.0089	0.4293	6.4400e-003		0.0816	0.0816		0.0816	0.0816		1,287.9336	1,287.9336	0.0247	0.0236	1,295.5871

6.0 Area Detail

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6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0943	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651	0.0000	21.2158	21.2158	0.0205	0.0000	21.7287
Unmitigated	43.3034	3.0816	83.9749	0.1849		10.9123	10.9123		10.9123	10.9123	1,330.1024	2,577.2158	3,907.3182	3.9871	0.0903	4,033.8995

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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	0.4804					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.2573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	37.2091	2.9463	72.2144	0.1842		10.8471	10.8471		10.8471	10.8471	1,330.1024	2,556.0000	3,886.1024	3.9666	0.0903	4,012.1708
Landscaping	0.3566	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651		21.2158	21.2158	0.0205		21.7287
Total	43.3034	3.0816	83.9749	0.1849		10.9123	10.9123		10.9123	10.9123	1,330.1024	2,577.2158	3,907.3182	3.9871	0.0903	4,033.8995

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4804					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.2573					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	0.3566	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651		21.2158	21.2158	0.0205		21.7287
Total	6.0943	0.1353	11.7605	6.2000e-004		0.0651	0.0651		0.0651	0.0651	0.0000	21.2158	21.2158	0.0205	0.0000	21.7287

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

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9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	441.00	1000sqft	10.12	441,000.00	0
Other Non-Asphalt Surfaces	113.46	1000sqft	2.60	113,460.00	0
Single Family Housing	142.00	Dwelling Unit	25.11	255,600.00	406

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Project specifications
- Construction Phase -
- Construction Off-road Equipment Mitigation -
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblLandUse	LotAcreage	46.10	25.11

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	0.4822	4.5643	3.7595	9.4900e-003	0.9007	0.1829	1.0836	0.3659	0.1698	0.5357	0.0000	854.6835	854.6835	0.1442	0.0000	858.2888
2022	0.4031	3.3971	3.6277	0.0107	0.4919	0.1105	0.6024	0.1326	0.1039	0.2365	0.0000	974.8943	974.8943	0.1012	0.0000	977.4241
2023	0.3679	2.9143	3.4864	0.0105	0.4919	0.0949	0.5868	0.1326	0.0893	0.2219	0.0000	952.2593	952.2593	0.0972	0.0000	954.6889
2024	1.0159	0.9953	1.3554	3.4800e-003	0.1447	0.0356	0.1803	0.0389	0.0333	0.0723	0.0000	314.1789	314.1789	0.0426	0.0000	315.2426
Maximum	1.0159	4.5643	3.7595	0.0107	0.9007	0.1829	1.0836	0.3659	0.1698	0.5357	0.0000	974.8943	974.8943	0.1442	0.0000	977.4241

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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	0.4822	4.5643	3.7595	9.4900e-003	0.5370	0.1829	0.7199	0.1927	0.1698	0.3626	0.0000	854.6830	854.6830	0.1442	0.0000	858.2883
2022	0.4031	3.3970	3.6277	0.0107	0.4919	0.1105	0.6024	0.1326	0.1039	0.2365	0.0000	974.8940	974.8940	0.1012	0.0000	977.4237
2023	0.3679	2.9143	3.4864	0.0105	0.4919	0.0949	0.5868	0.1326	0.0893	0.2219	0.0000	952.2589	952.2589	0.0972	0.0000	954.6885
2024	1.0159	0.9953	1.3554	3.4800e-003	0.1447	0.0356	0.1803	0.0389	0.0333	0.0723	0.0000	314.1788	314.1788	0.0426	0.0000	315.2424
Maximum	1.0159	4.5643	3.7595	0.0107	0.5370	0.1829	0.7199	0.1927	0.1698	0.3626	0.0000	974.8940	974.8940	0.1442	0.0000	977.4237

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	17.92	0.00	14.83	25.84	0.00	16.24	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2021	4-1-2021	1.5377	1.5377
2	4-2-2021	7-1-2021	1.4178	1.4178
3	7-2-2021	10-1-2021	1.0421	1.0421
4	10-2-2021	1-1-2022	1.0466	1.0466
5	1-2-2022	4-1-2022	0.9376	0.9376
6	4-2-2022	7-1-2022	0.9432	0.9432
7	7-2-2022	10-1-2022	0.9536	0.9536
8	10-2-2022	1-1-2023	0.9571	0.9571

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9	1-2-2023	4-1-2023	0.8113	0.8113
10	4-2-2023	7-1-2023	0.8161	0.8161
11	7-2-2023	10-1-2023	0.8251	0.8251
12	10-2-2023	1-1-2024	0.8289	0.8289
13	1-2-2024	4-1-2024	0.7679	0.7679
14	4-2-2024	7-1-2024	0.4968	0.4968
15	7-2-2024	9-30-2024	0.7200	0.7200
		Highest	1.5377	1.5377

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5568	0.0537	2.3728	2.3800e-003		0.1437	0.1437		0.1437	0.1437	15.0831	31.3904	46.4735	0.0473	1.0200e-003	47.9612
Energy	0.0234	0.2002	0.0852	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	626.2178	626.2178	0.0207	7.6200e-003	629.0064
Mobile	0.3250	1.6622	4.4254	0.0190	1.7415	0.0136	1.7551	0.4666	0.0126	0.4792	0.0000	1,756.1735	1,756.1735	0.0757	0.0000	1,758.0658
Waste						0.0000	0.0000		0.0000	0.0000	33.7899	0.0000	33.7899	1.9969	0.0000	83.7130
Water						0.0000	0.0000		0.0000	0.0000	2.9352	59.0310	61.9662	0.3039	7.6200e-003	71.8355
Total	1.9052	1.9161	6.8833	0.0226	1.7415	0.1735	1.9150	0.4666	0.1725	0.6391	51.8082	2,472.8126	2,524.6208	2.4446	0.0163	2,590.5818

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0917	0.0169	1.4701	8.0000e-005		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	2.4058	2.4058	2.3300e-003	0.0000	2.4640
Energy	0.0216	0.1841	0.0784	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	596.0176	596.0176	0.0199	7.1800e-003	598.6541
Mobile	0.3250	1.6622	4.4254	0.0190	1.7415	0.0136	1.7551	0.4666	0.0126	0.4792	0.0000	1,756.1735	1,756.1735	0.0757	0.0000	1,758.0658
Waste						0.0000	0.0000		0.0000	0.0000	33.7899	0.0000	33.7899	1.9969	0.0000	83.7130
Water						0.0000	0.0000		0.0000	0.0000	2.3482	50.0947	52.4429	0.2433	6.1200e-003	60.3486
Total	1.4383	1.8632	5.9738	0.0202	1.7415	0.0366	1.7781	0.4666	0.0357	0.5022	36.1380	2,404.6916	2,440.8296	2.3381	0.0133	2,503.2454

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	24.51	2.76	13.21	10.61	0.00	78.89	7.15	0.00	79.34	21.42	30.25	2.75	3.32	4.36	18.20	3.37

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2021	2/12/2021	5	30	
2	Grading	Grading	2/13/2021	5/28/2021	5	75	
3	Building Construction	Building Construction	5/29/2021	3/29/2024	5	740	
4	Paving	Paving	3/30/2024	6/14/2024	5	55	
5	Architectural Coating	Architectural Coating	6/15/2024	8/30/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 12.72

Residential Indoor: 517,590; Residential Outdoor: 172,530; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 33,268 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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	284.00	106.00	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	57.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0583	0.6075	0.3173	5.7000e-004		0.0307	0.0307		0.0282	0.0282	0.0000	50.1536	50.1536	0.0162	0.0000	50.5591
Total	0.0583	0.6075	0.3173	5.7000e-004	0.2710	0.0307	0.3017	0.1490	0.0282	0.1772	0.0000	50.1536	50.1536	0.0162	0.0000	50.5591

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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	1.1300e-003	8.3000e-004	9.4100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5803	2.5803	7.0000e-005	0.0000	2.5820
Total	1.1300e-003	8.3000e-004	9.4100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5803	2.5803	7.0000e-005	0.0000	2.5820

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1057	0.0000	0.1057	0.0581	0.0000	0.0581	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0583	0.6075	0.3173	5.7000e-004		0.0307	0.0307		0.0282	0.0282	0.0000	50.1535	50.1535	0.0162	0.0000	50.5590
Total	0.0583	0.6075	0.3173	5.7000e-004	0.1057	0.0307	0.1364	0.0581	0.0282	0.0863	0.0000	50.1535	50.1535	0.0162	0.0000	50.5590

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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	1.1300e-003	8.3000e-004	9.4100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5803	2.5803	7.0000e-005	0.0000	2.5820
Total	1.1300e-003	8.3000e-004	9.4100e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.5803	2.5803	7.0000e-005	0.0000	2.5820

3.3 Grading - 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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1572	1.7400	1.1579	2.3300e-003		0.0745	0.0745		0.0685	0.0685	0.0000	204.3562	204.3562	0.0661	0.0000	206.0085
Total	0.1572	1.7400	1.1579	2.3300e-003	0.3253	0.0745	0.3997	0.1349	0.0685	0.2034	0.0000	204.3562	204.3562	0.0661	0.0000	206.0085

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3.3 Grading - 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	3.1300e-003	2.3100e-003	0.0261	8.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	6.0000e-005	2.2400e-003	0.0000	7.1675	7.1675	1.9000e-004	0.0000	7.1723
Total	3.1300e-003	2.3100e-003	0.0261	8.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	6.0000e-005	2.2400e-003	0.0000	7.1675	7.1675	1.9000e-004	0.0000	7.1723

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1269	0.0000	0.1269	0.0526	0.0000	0.0526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1572	1.7400	1.1579	2.3300e-003		0.0745	0.0745		0.0685	0.0685	0.0000	204.3559	204.3559	0.0661	0.0000	206.0083
Total	0.1572	1.7400	1.1579	2.3300e-003	0.1269	0.0745	0.2013	0.0526	0.0685	0.1211	0.0000	204.3559	204.3559	0.0661	0.0000	206.0083

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3.3 Grading - 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	3.1300e-003	2.3100e-003	0.0261	8.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	6.0000e-005	2.2400e-003	0.0000	7.1675	7.1675	1.9000e-004	0.0000	7.1723
Total	3.1300e-003	2.3100e-003	0.0261	8.0000e-005	8.2300e-003	6.0000e-005	8.2900e-003	2.1900e-003	6.0000e-005	2.2400e-003	0.0000	7.1675	7.1675	1.9000e-004	0.0000	7.1723

3.4 Building Construction - 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					
Off-Road	0.1473	1.3510	1.2846	2.0900e-003		0.0743	0.0743		0.0699	0.0699	0.0000	179.5189	179.5189	0.0433	0.0000	180.6016
Total	0.1473	1.3510	1.2846	2.0900e-003		0.0743	0.0743		0.0699	0.0699	0.0000	179.5189	179.5189	0.0433	0.0000	180.6016

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3.4 Building Construction - 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	0.0234	0.7949	0.1971	2.0700e-003	0.0518	1.6000e-003	0.0534	0.0149	1.5300e-003	0.0165	0.0000	200.5664	200.5664	0.0127	0.0000	200.8835
Worker	0.0917	0.0678	0.7670	2.3300e-003	0.2415	1.8100e-003	0.2433	0.0641	1.6700e-003	0.0658	0.0000	210.3408	210.3408	5.6400e-003	0.0000	210.4818
Total	0.1151	0.8627	0.9641	4.4000e-003	0.2933	3.4100e-003	0.2967	0.0791	3.2000e-003	0.0823	0.0000	410.9071	410.9071	0.0183	0.0000	411.3653

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1473	1.3510	1.2846	2.0900e-003		0.0743	0.0743		0.0699	0.0699	0.0000	179.5187	179.5187	0.0433	0.0000	180.6014
Total	0.1473	1.3510	1.2846	2.0900e-003		0.0743	0.0743		0.0699	0.0699	0.0000	179.5187	179.5187	0.0433	0.0000	180.6014

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3.4 Building Construction - 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	0.0234	0.7949	0.1971	2.0700e-003	0.0518	1.6000e-003	0.0534	0.0149	1.5300e-003	0.0165	0.0000	200.5664	200.5664	0.0127	0.0000	200.8835
Worker	0.0917	0.0678	0.7670	2.3300e-003	0.2415	1.8100e-003	0.2433	0.0641	1.6700e-003	0.0658	0.0000	210.3408	210.3408	5.6400e-003	0.0000	210.4818
Total	0.1151	0.8627	0.9641	4.4000e-003	0.2933	3.4100e-003	0.2967	0.0791	3.2000e-003	0.0823	0.0000	410.9071	410.9071	0.0183	0.0000	411.3653

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471

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3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0368	1.2643	0.3124	3.4400e-003	0.0869	2.3200e-003	0.0892	0.0251	2.2200e-003	0.0273	0.0000	333.4718	333.4718	0.0205	0.0000	333.9836
Worker	0.1445	0.1027	1.1880	3.7600e-003	0.4051	2.9500e-003	0.4080	0.1076	2.7200e-003	0.1103	0.0000	340.1798	340.1798	8.5500e-003	0.0000	340.3934
Total	0.1813	1.3670	1.5004	7.2000e-003	0.4919	5.2700e-003	0.4972	0.1326	4.9400e-003	0.1376	0.0000	673.6515	673.6515	0.0290	0.0000	674.3770

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0368	1.2643	0.3124	3.4400e-003	0.0869	2.3200e-003	0.0892	0.0251	2.2200e-003	0.0273	0.0000	333.4718	333.4718	0.0205	0.0000	333.9836
Worker	0.1445	0.1027	1.1880	3.7600e-003	0.4051	2.9500e-003	0.4080	0.1076	2.7200e-003	0.1103	0.0000	340.1798	340.1798	8.5500e-003	0.0000	340.3934
Total	0.1813	1.3670	1.5004	7.2000e-003	0.4919	5.2700e-003	0.4972	0.1326	4.9400e-003	0.1376	0.0000	673.6515	673.6515	0.0290	0.0000	674.3770

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0274	0.9513	0.2793	3.3300e-003	0.0869	1.0800e-003	0.0879	0.0251	1.0300e-003	0.0261	0.0000	323.4201	323.4201	0.0178	0.0000	323.8651
Worker	0.1361	0.0929	1.0954	3.6200e-003	0.4051	2.8700e-003	0.4079	0.1076	2.6500e-003	0.1102	0.0000	327.4930	327.4930	7.7000e-003	0.0000	327.6855
Total	0.1635	1.0442	1.3747	6.9500e-003	0.4919	3.9500e-003	0.4959	0.1326	3.6800e-003	0.1363	0.0000	650.9131	650.9131	0.0255	0.0000	651.5506

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0274	0.9513	0.2793	3.3300e-003	0.0869	1.0800e-003	0.0879	0.0251	1.0300e-003	0.0261	0.0000	323.4201	323.4201	0.0178	0.0000	323.8651
Worker	0.1361	0.0929	1.0954	3.6200e-003	0.4051	2.8700e-003	0.4079	0.1076	2.6500e-003	0.1102	0.0000	327.4930	327.4930	7.7000e-003	0.0000	327.6855
Total	0.1635	1.0442	1.3747	6.9500e-003	0.4919	3.9500e-003	0.4959	0.1326	3.6800e-003	0.1363	0.0000	650.9131	650.9131	0.0255	0.0000	651.5506

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	0.0478	0.4369	0.5254	8.8000e-004		0.0199	0.0199		0.0188	0.0188	0.0000	75.3510	75.3510	0.0178	0.0000	75.7964
Total	0.0478	0.4369	0.5254	8.8000e-004		0.0199	0.0199		0.0188	0.0188	0.0000	75.3510	75.3510	0.0178	0.0000	75.7964

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3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7100e-003	0.2373	0.0678	8.3000e-004	0.0217	2.7000e-004	0.0220	6.2700e-003	2.6000e-004	6.5200e-003	0.0000	80.5694	80.5694	4.3800e-003	0.0000	80.6788
Worker	0.0322	0.0212	0.2554	8.8000e-004	0.1013	7.1000e-004	0.1020	0.0269	6.5000e-004	0.0276	0.0000	79.1789	79.1789	1.7600e-003	0.0000	79.2230
Total	0.0389	0.2584	0.3232	1.7100e-003	0.1230	9.8000e-004	0.1240	0.0332	9.1000e-004	0.0341	0.0000	159.7483	159.7483	6.1400e-003	0.0000	159.9018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0478	0.4369	0.5254	8.8000e-004		0.0199	0.0199		0.0188	0.0188	0.0000	75.3509	75.3509	0.0178	0.0000	75.7963
Total	0.0478	0.4369	0.5254	8.8000e-004		0.0199	0.0199		0.0188	0.0188	0.0000	75.3509	75.3509	0.0178	0.0000	75.7963

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3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7100e-003	0.2373	0.0678	8.3000e-004	0.0217	2.7000e-004	0.0220	6.2700e-003	2.6000e-004	6.5200e-003	0.0000	80.5694	80.5694	4.3800e-003	0.0000	80.6788
Worker	0.0322	0.0212	0.2554	8.8000e-004	0.1013	7.1000e-004	0.1020	0.0269	6.5000e-004	0.0276	0.0000	79.1789	79.1789	1.7600e-003	0.0000	79.2230
Total	0.0389	0.2584	0.3232	1.7100e-003	0.1230	9.8000e-004	0.1240	0.0332	9.1000e-004	0.0341	0.0000	159.7483	159.7483	6.1400e-003	0.0000	159.9018

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0272	0.2619	0.4022	6.3000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	55.0730	55.0730	0.0178	0.0000	55.5183
Paving	0.0133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0404	0.2619	0.4022	6.3000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	55.0730	55.0730	0.0178	0.0000	55.5183

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3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	9.5000e-004	0.0114	4.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.5386	3.5386	8.0000e-005	0.0000	3.5406
Total	1.4400e-003	9.5000e-004	0.0114	4.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.5386	3.5386	8.0000e-005	0.0000	3.5406

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0272	0.2619	0.4022	6.3000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	55.0729	55.0729	0.0178	0.0000	55.5182
Paving	0.0133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0404	0.2619	0.4022	6.3000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	55.0729	55.0729	0.0178	0.0000	55.5182

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3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	9.5000e-004	0.0114	4.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.5386	3.5386	8.0000e-005	0.0000	3.5406
Total	1.4400e-003	9.5000e-004	0.0114	4.0000e-005	4.5300e-003	3.0000e-005	4.5600e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.5386	3.5386	8.0000e-005	0.0000	3.5406

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8768					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9700e-003	0.0335	0.0498	8.0000e-005		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	7.0215	7.0215	4.0000e-004	0.0000	7.0313
Total	0.8818	0.0335	0.0498	8.0000e-005		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	7.0215	7.0215	4.0000e-004	0.0000	7.0313

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3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4700e-003	3.5900e-003	0.0434	1.5000e-004	0.0172	1.2000e-004	0.0173	4.5700e-003	1.1000e-004	4.6800e-003	0.0000	13.4467	13.4467	3.0000e-004	0.0000	13.4542
Total	5.4700e-003	3.5900e-003	0.0434	1.5000e-004	0.0172	1.2000e-004	0.0173	4.5700e-003	1.1000e-004	4.6800e-003	0.0000	13.4467	13.4467	3.0000e-004	0.0000	13.4542

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8768					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9700e-003	0.0335	0.0498	8.0000e-005		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	7.0214	7.0214	4.0000e-004	0.0000	7.0313
Total	0.8818	0.0335	0.0498	8.0000e-005		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	7.0214	7.0214	4.0000e-004	0.0000	7.0313

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3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4700e-003	3.5900e-003	0.0434	1.5000e-004	0.0172	1.2000e-004	0.0173	4.5700e-003	1.1000e-004	4.6800e-003	0.0000	13.4467	13.4467	3.0000e-004	0.0000	13.4542
Total	5.4700e-003	3.5900e-003	0.0434	1.5000e-004	0.0172	1.2000e-004	0.0173	4.5700e-003	1.1000e-004	4.6800e-003	0.0000	13.4467	13.4467	3.0000e-004	0.0000	13.4542

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3250	1.6622	4.4254	0.0190	1.7415	0.0136	1.7551	0.4666	0.0126	0.4792	0.0000	1,756.1735	1,756.1735	0.0757	0.0000	1,758.0658
Unmitigated	0.3250	1.6622	4.4254	0.0190	1.7415	0.0136	1.7551	0.4666	0.0126	0.4792	0.0000	1,756.1735	1,756.1735	0.0757	0.0000	1,758.0658

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,351.84	1,407.22	1,224.04	4,584,090	4,584,090
Total	1,351.84	1,407.22	1,224.04	4,584,090	4,584,090

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Other Non-Asphalt Surfaces	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825
Single Family Housing	0.551360	0.042151	0.204257	0.114482	0.014139	0.005783	0.021875	0.035696	0.002143	0.001676	0.004899	0.000713	0.000825

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	382.7857	382.7857	0.0158	3.2700e-003	384.1551
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	394.3705	394.3705	0.0163	3.3700e-003	395.7814
NaturalGas Mitigated	0.0216	0.1841	0.0784	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.2319	213.2319	4.0900e-003	3.9100e-003	214.4990
NaturalGas Unmitigated	0.0234	0.2002	0.0852	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	231.8473	231.8473	4.4400e-003	4.2500e-003	233.2250

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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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.34465e+006	0.0234	0.2002	0.0852	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	231.8473	231.8473	4.4400e-003	4.2500e-003	233.2250
Total		0.0234	0.2002	0.0852	1.2800e-003		0.0162	0.0162		0.0162	0.0162	0.0000	231.8473	231.8473	4.4400e-003	4.2500e-003	233.2250

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.99581e+006	0.0216	0.1841	0.0784	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.2319	213.2319	4.0900e-003	3.9100e-003	214.4990
Total		0.0216	0.1841	0.0784	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.2319	213.2319	4.0900e-003	3.9100e-003	214.4990

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.23774e+006	394.3705	0.0163	3.3700e-003	395.7814
Total		394.3705	0.0163	3.3700e-003	395.7814

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.20138e+006	382.7857	0.0158	3.2700e-003	384.1551
Total		382.7857	0.0158	3.2700e-003	384.1551

6.0 Area Detail

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6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0917	0.0169	1.4701	8.0000e-005		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	2.4058	2.4058	2.3300e-003	0.0000	2.4640
Unmitigated	1.5568	0.0537	2.3728	2.3800e-003		0.1437	0.1437		0.1437	0.1437	15.0831	31.3904	46.4735	0.0473	1.0200e-003	47.9612

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.4651	0.0368	0.9027	2.3000e-003		0.1356	0.1356		0.1356	0.1356	15.0831	28.9846	44.0677	0.0450	1.0200e-003	45.4973
Landscaping	0.0446	0.0169	1.4701	8.0000e-005		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	2.4058	2.4058	2.3300e-003	0.0000	2.4640
Total	1.5568	0.0538	2.3728	2.3800e-003		0.1437	0.1437		0.1437	0.1437	15.0831	31.3904	46.4735	0.0473	1.0200e-003	47.9612

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9595					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	0.0446	0.0169	1.4701	8.0000e-005		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	2.4058	2.4058	2.3300e-003	0.0000	2.4640
Total	1.0917	0.0169	1.4701	8.0000e-005		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	2.4058	2.4058	2.3300e-003	0.0000	2.4640

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	52.4429	0.2433	6.1200e-003	60.3486
Unmitigated	61.9662	0.3039	7.6200e-003	71.8355

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.25187 / 5.8327	61.9662	0.3039	7.6200e-003	71.8355
Total		61.9662	0.3039	7.6200e-003	71.8355

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.4015 / 5.47691	52.4429	0.2433	6.1200e-003	60.3486
Total		52.4429	0.2433	6.1200e-003	60.3486

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	33.7899	1.9969	0.0000	83.7130
Unmitigated	33.7899	1.9969	0.0000	83.7130

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	166.46	33.7899	1.9969	0.0000	83.7130
Total		33.7899	1.9969	0.0000	83.7130

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	166.46	33.7899	1.9969	0.0000	83.7130
Total		33.7899	1.9969	0.0000	83.7130

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
