Canterwood (Tentative Tract Map No. 37439)

AIR QUALITY IMPACT ANALYSIS

COUNTY OF RIVERSIDE

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TABLE OF CONTENTS

TABLE OF CONTENTS ..... **I**
APPENDICES ..... **I**
LIST OF EXHIBITS ..... **I**
LIST OF TABLES ..... **I**
LIST OF ABBREVIATED TERMS ..... **II**
EXECUTIVE SUMMARY **1**
Construction-Source Emissions 1
Operational-Source Emissions 1
1 INTRODUCTION **3**
1.1 Site Location 3
1.2 Project Description 3
1.3 Standard Regulatory Requirements/Best Available Control Measures (BACMs) 3
1.4 Construction-Source Mitigation Measures 6
1.5 Operational-Source Mitigation Measures 6
2 AIR QUALITY SETTING **9**
2.1 South Coast Air Basin 9
2.2 Regional Climate 9
2.3 Wind Patterns and Project Location 11
2.4 Existing Air Quality 11
2.5 Criteria Pollutants 14
2.6 Regional Air Quality 18
2.7 Local Air Quality 18
2.8 Regulatory Background 19
2.9 Existing Project Site Air Quality Conditions 21
3 PROJECT AIR QUALITY IMPACT **23**
3.1 Introduction 23
3.2 Standards of Significance 23
3.3 Project-Related Sources of Potential Impact 24
3.4 Construction Emissions 24
3.5 Operational Emissions 28
3.6 Localized Significance - Construction Activity 31
3.7 Localized Significance – Long-Term Operational Activity 38
3.8 CO “Hot Spot” Analysis 38
3.9 Air Quality Management Planning 40
3.10 Potential Impacts to Sensitive Receptors 42
3.11 Odors 42
3.12 Cumulative Impacts 43
4 FINDINGS & CONCLUSIONS **45**
5 REFERENCES **47**
6 CERTIFICATION **49**

APPENDICES

APPENDIX 2.1: STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS
APPENDIX 3.1: CALEEMOD CONSTRUCTION MASS GRADING AND PHASE 1 (UNMITIGATED) EMISSIONS MODEL OUTPUTS
APPENDIX 3.2: CALEEMOD CONSTRUCTION PHASE 2 (UNMITIGATED) EMISSIONS MODEL OUTPUTS
APPENDIX 3.3: CALEEMOD CONSTRUCTION PHASE 1 (MITIGATED) EMISSIONS MODEL OUTPUTS
APPENDIX 3.4: CALEEMOD CONSTRUCTION PHASE 2 (MITIGATED) EMISSIONS MODEL OUTPUTS
APPENDIX 3.5: CALEEMOD OPERATIONS PHASE 1 EMISSIONS MODEL OUTPUTS
APPENDIX 3.6: CALEEMOD OPERATIONS PHASE 1 & 2 EMISSIONS MODEL OUTPUTS

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP 4
EXHIBIT 1-B: SITE PLAN 5
EXHIBIT 3-A: RECEPTOR LOCATIONS 34
EXHIBIT 3-B: OFF-SITE RECEPTOR LOCATIONS 37

LIST OF TABLES

TABLE 2-1: AMBIENT AIR QUALITY STANDARDS (1 OF 2) 12
TABLE 2-1: AMBIENT AIR QUALITY STANDARDS (1 OF 2) 13
TABLE 2-2: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SOUTH COAST AIR BASIN (SCAB) 18
TABLE 2-3: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2015-2017 19
TABLE 3-1: MAXIMUM DAILY EMISSIONS THRESHOLDS (1 OF 2) 23
TABLE 3-1: MAXIMUM DAILY EMISSIONS THRESHOLDS (2 OF 2) 24
TABLE 3-2: CONSTRUCTION DURATION 25
TABLE 3-3: CONSTRUCTION EQUIPMENT 26
TABLE 3-4: EMISSIONS SUMMARY OF OVERALL CONSTRUCTION (WITHOUT MITIGATION) 27
TABLE 3-5: EMISSIONS SUMMARY OF OVERALL CONSTRUCTION (WITH MITIGATION) 28
TABLE 3-6: MAXIMUM DAILY OPERATIONAL EMISSIONS SUMMARY (1 OF 2) 30
TABLE 3-6: MAXIMUM DAILY OPERATIONAL EMISSIONS SUMMARY (2 OF 2) 31
TABLE 3-7: MAXIMUM DAILY DISTURBED-ACREAGE 33
TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY CONSTRUCTION (1 OF 2) 35
TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY CONSTRUCTION (2 OF 2) 36
TABLE 3-9: OFF-SITE RECEPTOR LOCATIONS 36
TABLE 3-10: CO MODEL RESULTS 38
TABLE 3-11: TRAFFIC VOLUMES 39

LIST OF ABBREVIATED TERMS

(1)	Reference
µg/m^3	Microgram per Cubic Meter
AADT	Annual Average Daily Trips
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
BACM	Best Available Control Measures
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CO	Carbon Monoxide
DPM	Diesel Particulate Matter
EPA	Environmental Protection Agency
LST	Localized Significance Threshold
NAAQS	National Ambient Air Quality Standards
NO_2	Nitrogen Dioxide
NO_X	Oxides of Nitrogen
Pb	Lead
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
PPM	Parts Per Million
Project	Canterwood (Tentative Tract Map No. 37439)
ROG	Reactive Organic Gases
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SIPs	State Implementation Plans
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis

TOG	Total Organic Gases
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
VPH	Vehicles Per Hour

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EXECUTIVE SUMMARY

CONSTRUCTION-SOURCE EMISSIONS

REGIONAL IMPACTS

For regional emissions, the Project has the potential to exceed the numerical thresholds of significance established by the SCAQMD for emissions of VOCs. It should be noted that impacts without mitigation take credit for reductions achieved through standard regulatory requirements (Rule 403 and Rule 1113). MM AQ-1 is recommended to reduce VOC impacts. After implementation of MM AQ-1, Project construction-source emissions would not exceed the applicable SCAQMD thresholds of significance for any criteria pollutants. Therefore, a less than significant impact would occur.

LOCALIZED IMPACTS

The Project would not exceed the SCAQMD's localized significance thresholds for any criteria pollutants. It should be noted that impacts without mitigation take credit for reductions achieved through standard regulatory requirements (Rule 403 and Rule 1113). Therefore, a less than significant impact would occur for Project localized construction-source emissions.

Odors

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less-than-significant.

OPERATIONAL-SOURCE EMISSIONS

REGIONAL IMPACTS

For regional emissions, the Project has the potential to exceed the numerical thresholds of significance established by the SCAQMD for emissions of VOCs during Phase 1. The Project has the potential to exceed the threshold of significance for emissions of both VOCs and NO_x during Phase 2. It is important to note that the majority of VOC emissions are derived from consumer products. For analytical purposes, consumer products include cleaning supplies, kitchen aerosols, cosmetics and toiletries (1). As such, the Project cannot meaningfully control consumer products via mitigation thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce this impact to less than significant levels. Although MM AQ-2 is required to reduce operational emissions, it should be noted that there is no way to quantify these reductions in the CalEEMod model. Moreover, no additional feasible mitigation measures exist that would further reduce these emissions to levels that are less-than-significant. It should be noted that over 84 percent of operational-source NO_X emissions would be generated

from the mobile activities from vehicles that cannot be mitigated. Neither the Project Applicant nor the Lead Agency (County of Riverside) can substantively or materially affect reductions in Project mobile-source emissions beyond the regulatory requirements and mitigation measures identified herein. Thus, these emissions are considered significant and unavoidable.

LOCALIZED IMPACTS

Project operational-source emissions would not result in or cause a significant localized air quality impact as discussed in the operational LSTs section of this report. The proposed Project would not result in a significant CO "hotspot" as a result of Project related traffic during ongoing operations, nor would the Project result in a significant adverse health impact as discussed in Section 3.8, thus a less than significant impact to sensitive receptors during operational activity is expected.

ODORS

Substantial odor-generating sources include land uses such as agricultural activities, feedlots, wastewater treatment facilities, landfills or various heavy industrial uses. The Project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential sources of operational odors generated by the Project would include disposal of miscellaneous residential refuse. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances (2). Consistent with County requirements, all Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with solid waste regulations. Potential operational-source odor impacts are therefore considered less-than-significant.

1 INTRODUCTION

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for Canterwood (Tentative Tract Map No. 37439) (referred to as "Project").

The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the proposed Project and recommend measures to mitigate impacts considered potentially significant in comparison to established air district thresholds.

1.1 SITE LOCATION

The proposed Canterwood (Tentative Tract Map No. 37439) site is located on the northeast corner of Leon Road and Craig Avenue in an unincorporated area of Riverside County, as shown on Exhibit 1-A. The Project site is currently vacant. Existing residential uses are located west across Leon Road, and south of the Project site on Craig Road. Existing agricultural uses in the Project study area are located north, east, and southeast of the Project site. Vacant, residential-designated uses are located immediately north and south of the Project site boundaries, and to the east on Craig Avenue. The Interstate 215 (I-215) freeway right-of-way is located roughly 3 miles west of the Project site.

1.2 PROJECT DESCRIPTION

Consistent with the *Traffic Impact Analysis*, potential impacts have been assessed for two development phases. Exhibit 1-B identifies the proposed land use and planning areas which are included in Phase 1 and Phase 2. In addition to the Project, this air quality study analyzes off-site improvements including a channel, sewer line, and lift station associated with Project construction. The two phases and their anticipated opening years are as follows:

- Phase 1 (2021) – 317 single-family residential units and an 8.2-acre park.
- Phase 2 (2025) – Phase 1 development plus 257 additional single-family residential units.

1.3 STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES (BACMS)

Measures listed below (or equivalent language) shall appear on all Project grading plans, construction specifications and bid documents, and the County shall ensure such language is incorporated prior to issuance of any development permits.

SCAQMD Rules that are currently applicable during construction activity for this Project include but are not limited to: Rule 1113 (Architectural Coatings) (3) and Rule 403 (Fugitive Dust. It should be noted that BACMs are not mitigation as they are standard regulatory requirements.

BACM AQ-1

All applicable measures shall be incorporated into Project plans and specifications as implementation of Rule 403, which include but are not limited to (4):

- All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.

EXHIBIT 1-A: LOCATION MAP

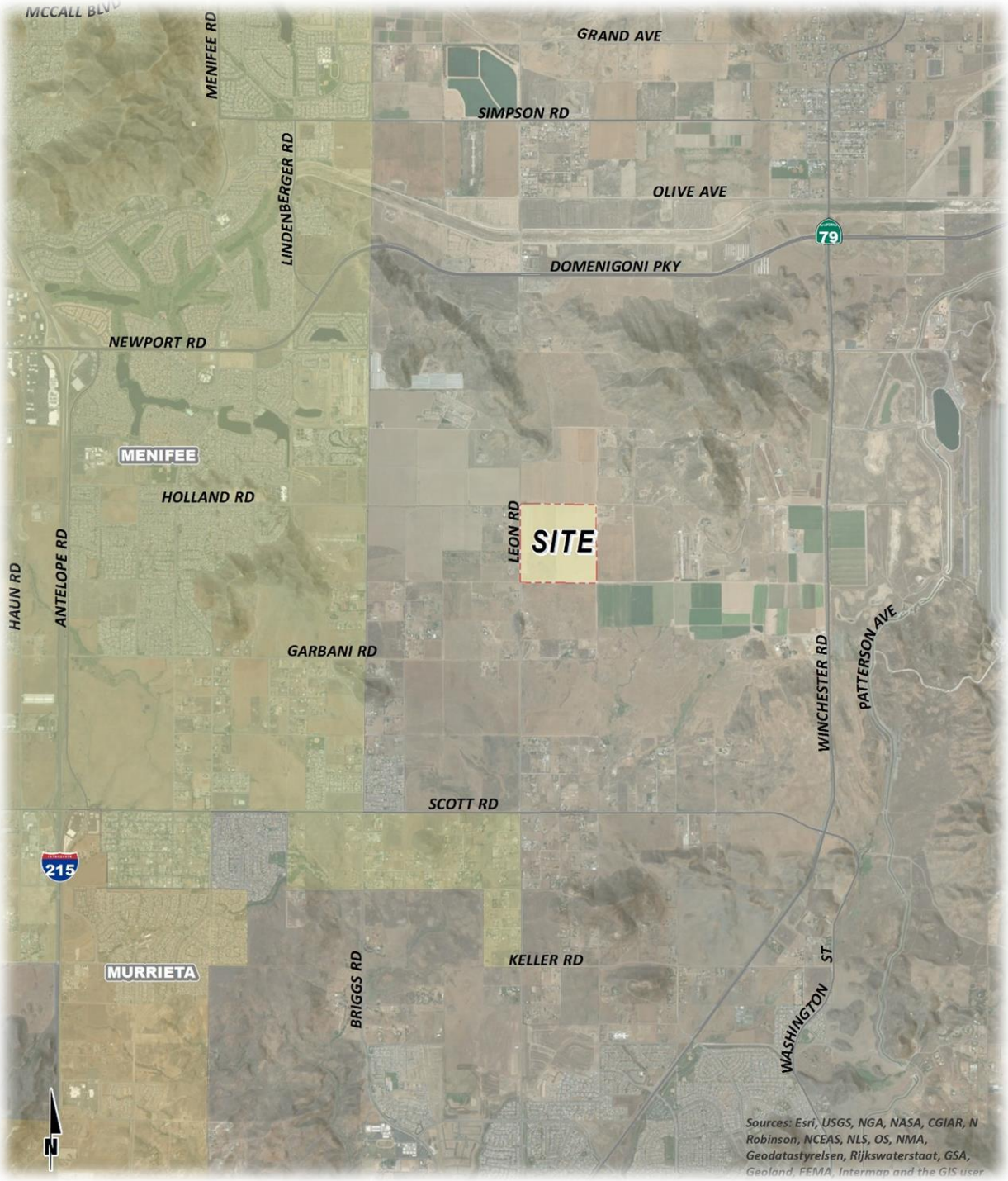
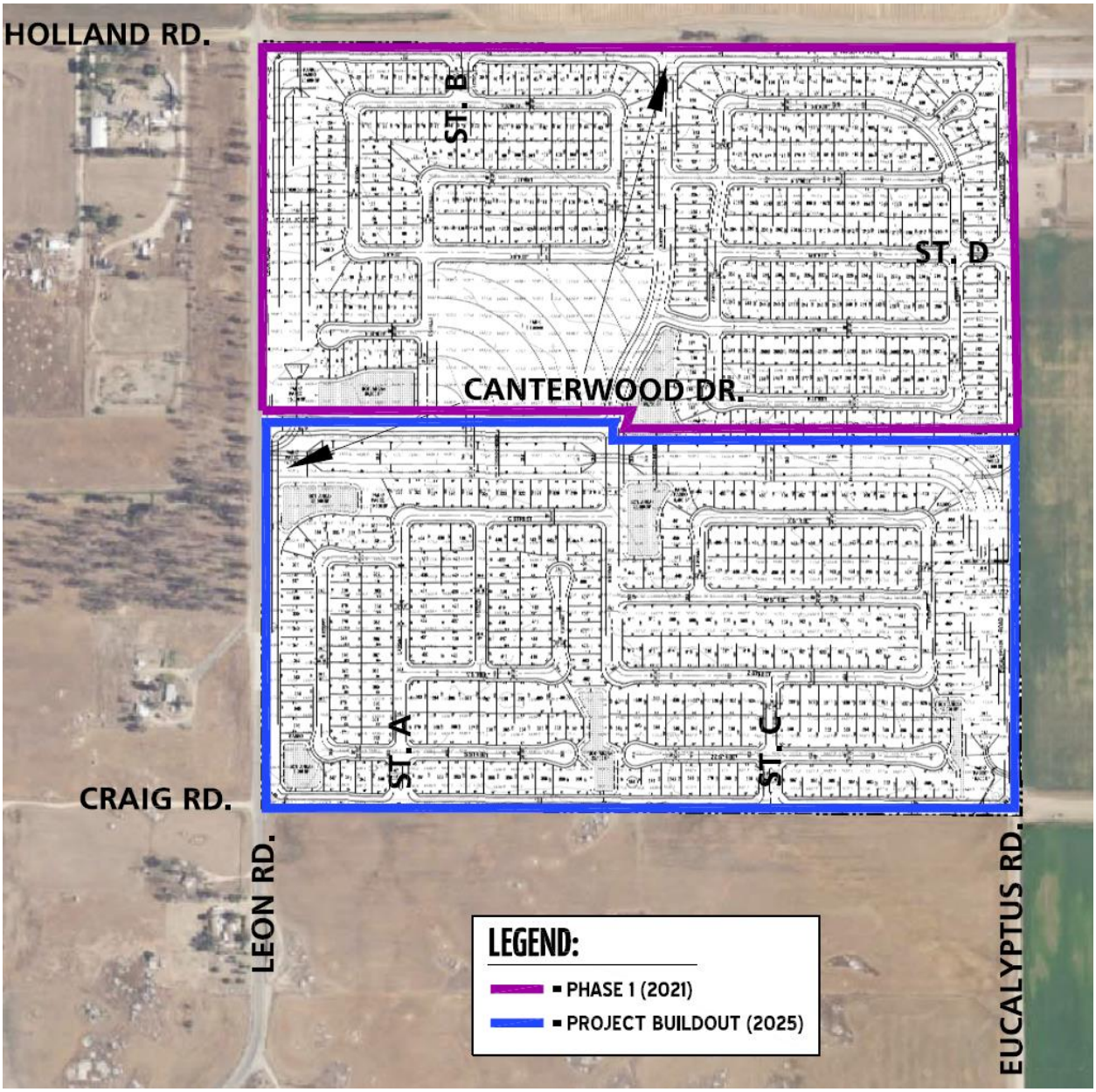


EXHIBIT 1-B: SITE PLAN



- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered at least three (3) times daily during dry weather. Watering, with complete coverage of disturbd areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.
- The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are reduced to 15 miles per hour or less.

BACM AQ-2

The following measures shall be incorporated into Project plans and specifications as implementation of Rule 1113 (5):

- Only "Low-Volatile Organic Compounds" paints (no more than 50 gram/liter of VOC) and/or High-Pressure Low Volume (HPLV) applications consistent with South Coast Air Quality Management District Rule 1113 shall be used.

1.4 CONSTRUCTION-SOURCE MITIGATION MEASURES

MM AQ-1

The Project shall utilize "Super-Compliant" low VOC paints for the building envelope application which have been reformulated to exceed the regulatory VOC limits put forth by SCAQMD's Rule 1113 (BACM AQ-2). Super-Compliant low VOC paints shall be no more than 10g/L of VOC. Alternatively, the Project may utilize building materials that do not require the use of architectural coatings.

1.5 OPERATIONAL-SOURCE MITIGATION MEASURES

MM AQ-2

The Project would implement energy-saving features and operational programs, consistent with the reduction measures set forth in the County of Riverside Climate Action Plan (CAP), to be incorporated into all residential portions developed pursuant to the Project. Notably, the Project would comply with the California Green Building Standards Code (CALGreen; CCR, Title 24, Part 11) as implemented by the County of Riverside. The Project also incorporates and expresses the following design features and attributes promoting energy efficiency and sustainability. The specific measures may be substituted for feasibility so long as they achieve an equal level of total reductions/points pursuant to the County's CAP:

- Measure E1.A.1: Modestly Enhanced Insulation (walls R-13, roof/attic R-38) – 12 points.
- Measure E1.A.2: Modestly Enhanced Window (0.4 U-Factor, 0.32 SHGC) – 6 points.
- Measure E1.A.3: Modest cool roof (CRC Rated 0.20 aged solar reflectance, 0.75 thermal emittance) –10 points
- Measure E1.B.1: Modest Duct Insulation (R-6) –7 points
- Measure E1.B.2: Very High Efficiency HVAC (SEER 16/80% AFUE or 9 HSPF) – 9 points
- Measure E1.B.3: Improved Efficiency Water Heater (0.675 Energy Factor) –12 points
- Measure E1.B.5: High Efficiency Lights (50% of in-unit fixtures are high efficacy) – 10 points

- Measure E1.B.6: Energy Star Dish Refrigerator (new) –1 point
- Measure E1.B.6: Energy Star Dish Washer (new) –1 point
- Measure E1.B.6: Energy Star Dish Washing Machine (new) –1 point
- Measure E2.A.1: 30 percent of the power needs of the project –20 point
- Measure W1.B.1: Water Efficient Showerheads (2.0 gpm) – 3 points
- Measure W1.B.2: Water Efficient Toilets (1.5 gpm) – 3 points
- Measure W1.B.3: Water Efficient Faucets (1.28 gpm) – 3 points
- Measure W1.B.4: Water Efficient Dishwasher (6 gallons per cycle or less) – 1 point
- Measure W1.B.5: Water Efficient Washing Machine (Water factor <5.5) – 1 point

Although MM AQ-2 is required to reduce operational emissions, it should be noted that there is no way to quantify these reductions in the CalEEMod model. Moreover, no additional feasible mitigation measures exist that would further reduce these emissions to levels that are less-than-significant. It should be noted that over 84 percent of operational-source NOx emissions would be generated from the mobile activities from vehicles that cannot be mitigated. Neither the Project Applicant nor the Lead Agency (County of Riverside) can substantively or materially affect reductions in Project mobile-source emissions beyond the regulatory requirements and mitigation measures identified herein. Thus, these emissions are considered significant and unavoidable.

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2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

2.1 SOUTH COAST AIR BASIN

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (6). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As discussed above, the Project site is located within the South Coast Air Basin, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County. The larger South Coast district boundary includes 10,743 square miles.

The SCAB is bound by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bound by the San Gabriel Mountains to the south and west, the Los Angeles / Kern County border to the north, and the Los Angeles / San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bound by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s (degrees Fahrenheit). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide to sulfates is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent along the coast and 59 percent inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90 percent of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14 ½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NO_x and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3 WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The Basin is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly on-shore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

2.4 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated and in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-1 (7).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards presented in Table 2-1.

TABLE 2-1: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page ...

For more information please call ARB-PIO at (916) 322-2990

California Air Resources Board (5/4/16)

TABLE 2-1: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

For more information please call ARB-PIO at (916) 322-2990 **California Air Resources Board (5/4/16)**

2.5 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and effects are identified below:

OZONE

Ozone (O_3) is a highly reactive and unstable gas that is formed when volatile organic compounds (VOCs) and nitrogen oxides (NO_X), both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. Ozone concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.

Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for ozone effects. Short-term exposure (lasting for a few hours) to ozone at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated ozone levels are associated with increased school absences. In recent years, a correlation between elevated ambient ozone levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple sports and live in communities with high ozone levels.

Ozone exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes ozone may be more toxic than exposure to ozone alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.

CARBON MONOXIDE

Carbon Monoxide (CO) is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone, motor vehicles operating at slow speeds are the primary source of CO in the Basin. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.

Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen supply to the heart. Inhaled CO has no direct toxic effect on the lungs, but exerts its effect on tissues by interfering with oxygen

transport and competing with oxygen to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for oxygen supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (oxygen deficiency) as seen at high altitudes.

Reduction in birth weight and impaired neurobehavioral development have been observed in animals chronically exposed to CO, resulting in COHb levels similar to those observed in smokers. Recent studies have found increased risks for adverse birth outcomes with exposure to elevated CO levels; these include pre-term births and heart abnormalities.

PARTICULATE MATTER

Particulate Matter less than 10 microns (PM_{10}) is a major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. PM_{10} also causes visibility reduction and is a criteria air pollutant.

Particulate Matter less than 2.5 microns ($PM_{2.5}$) is a similar air pollutant consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include sulfates formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X release from power plants, automobiles and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. $PM_{2.5}$ is a criteria air pollutant.

A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in life-span, and an increased mortality from lung cancer.

Daily fluctuations in $PM_{2.5}$ concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter.

The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM_{10} and $PM_{2.5}$.

NITROGEN DIOXIDE

Nitrogen oxides (NO_X) consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with oxygen (O_2). Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide.

Nitrogen oxides are typically created during combustion processes, and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant, and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitors.

Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups.

In animals, exposure to levels of NO_2 considerably higher than ambient concentrations results in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of ozone exposure increases when animals are exposed to a combination of ozone and NO_2.

SULFUR DIOXIDE

Sulfur Dioxide (SO_2) is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms sulfates (SO_4). Collectively, these pollutants are referred to as sulfur oxides (SO_X).

A few minutes of exposure to low levels of SO_2 can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2.

Animal studies suggest that despite SO_2 being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract.

Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically or one pollutant alone is the predominant factor.

LEAD

Lead (Pb) is a heavy metal that is highly persistent in the environment. In the past, the primary source of lead in the air was emissions from vehicles burning leaded gasoline. As a result of the

removal of lead from gasoline, there have been no violations at any of the SCAQMD's regular air monitoring stations since 1982. Currently, emissions of lead are largely limited to stationary sources such as lead smelters. It should be noted that the Project is not anticipated to generate a quantifiable amount of lead emissions. Lead is a criteria air pollutant.

Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure.

Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.

VOLATILE ORGANIC COMPOUNDS

Volatile Organic Compounds (VOC) are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form ozone to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include: carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The SCAQMD uses the terms VOC and ROG (see below) interchangeably.

Reactive Organic Gases (ROG) are similar to VOC and are also precursors in forming ozone and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and nitrogen oxides react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The SCAQMD uses the terms ROG and VOC (see previous) interchangeably.

The science of odor as a health concern is still new. Merely identifying the hundreds of VOCs that cause odors poses a big challenge. Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

2.6 REGIONAL AIR QUALITY

The SCAQMD monitors levels of various criteria pollutants at 38 permanent monitoring stations and 5 single-pollutant source Lead (Pb) air monitoring sites throughout the air district (8). In 2015, the federal and state ambient air quality standards (NAAQS and CAAQS) were exceeded on one or more days for ozone, PM_{10}, and $PM_{2.5}$ at most monitoring locations (9). No areas of the SCAB exceeded federal or state standards for NO_2, SO_2, CO, sulfates or lead. See Table 2-2, for attainment designations for the SCAB (10) (11). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-2: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SOUTH COAST AIR BASIN (SCAB)

Criteria Pollutant	State Designation	Federal Designation
Ozone - 1hour standard	Nonattainment	Nonattainment ("extreme")
Ozone - 8 hour standard	Nonattainment	Nonattainment ("extreme")
PM_{10}	Nonattainment	Attainment (Maintenance)
$PM_{2.5}$	Nonattainment	Nonattainment ("serious")
Carbon Monoxide	Attainment	Attainment (Maintenance)
Nitrogen Dioxide	Attainment	Unclassifiable/Attainment
Sulfur Dioxide	Attainment	Unclassifiable/Attainment
Lead[1]	Attainment	Nonattainment (Partial)

Source: State/Federal designations were taken from http://www.arb.ca.gov/desig/adm/adm.htm
Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the South Coast Air Basin

2.7 LOCAL AIR QUALITY

Relative to the Project site, the nearest long-term air quality monitoring site for Ozone (O_3) and particulate matter ≤ 10 microns (PM_{10}) is the Perris Valley monitoring station (SRA 24) located approximately 10.7 miles northwest of the Project site. Data for Carbon Monoxide (CO) and Nitrogen Dioxide (NO_2) were taken from the Elsinore Valley monitoring station (SRA 25), which is located approximately 12.2 miles southwest of the Project site. Data for Particulate matter ≤ 2.5 microns ($PM_{2.5}$) data was taken from the Metropolitan Riverside County 2 monitoring station (SRA 23), located approximately 29.4 miles northwest of the Project site.

The most recent three (3) years of data available is shown on Table 2-3, and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project site (12) (13). Additionally, data for SO_2 has been omitted as attainment is regularly met in the South Coast Air Basin and few monitoring stations measure SO_2 concentrations. It should be noted that the table below is provided for informational purposes.

[1] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

TABLE 2-3: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2015-2017

POLLUTANT	STANDARD	YEAR		
		2015	2016	2017
Ozone				
Maximum Federal 1-Hour Concentration (ppm)		0.124	0.131	0.120
Maximum Federal 8-Hour Concentration (ppm)		0.102	0.098	0.105
Number of Days Exceeding Federal 1-Hour Standard		25	23	33
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	50	56	86
Number of Days Exceeding Federal 8-Hour Standard	> 0.070 ppm	0	1	0
Number of Days Exceeding State 8-Hour Standard	> 0.070 ppm	49	55	80
Carbon Monoxide (CO)[A]				
Maximum 1-Hour Concentration	> 35 ppm	0.8	2.0	--
Maximum 8-Hour Concentration	> 20 ppm	0.6	1.4	--
Nitrogen Dioxide (NO_2)				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.047	0.051	0.049
Maximum State 1-Hour Concentration	> 0.18 ppm	0.047	0.051	0.049
Annual Federal Standard Design Value		9	8	8
Annual State Standard Design Value		8	8	8
Number of Days Exceeding Federal 1-Hour Standard	> 0.18 ppm	0	0	0
Number of Days Exceeding State 1-Hour Standard	> 0.18 ppm	0	0	0
Particulate Matter ≤ 10 Microns (PM_{10})				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	188.0	76.0	75.4
Maximum State 24-Hour Concentration ($\mu g/m^3$)	> 50 $\mu g/m^3$	178.0	--	--
Annual Federal Arithmetic Mean ($\mu g/m^3$)		33.1	32.2	32.6
Annual State Arithmetic Mean ($\mu g/m^3$)	20 $\mu g/m^3$	33.0	--	--
Number of Days Exceeding Federal 24-Hour Standard	> 150 $\mu g/m^3$	1	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 $\mu g/m^3$	4	--	--
Particulate Matter ≤ 2.5 Microns ($PM_{2.5}$)				
Maximum State 24-Hour Concentration ($\mu g/m^3$)		41.7	31.5	27.2
Annual State Arithmetic Mean ($\mu g/m^3$)		--	9.7	11.3

Source: California Air Resource Board iADAM: Air Quality Data Statistics
-- = data not available from ARB or SCAQMD

2.8 REGULATORY BACKGROUND

2.8.1 FEDERAL REGULATIONS

The U.S. EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_x, SO_2, PM_{10}, $PM_{2.5}$, and lead (7). The U.S. EPA has jurisdiction over emissions sources that are under the authority

of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The U.S. EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of the CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955, and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (14). The CAA also mandates that states submit and implement State Implementation Plans (SIPs) for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and lead. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-1 (previously presented) provides the NAAQS within the basin.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and nitrogen oxides (NO_x). NO_x is a collective term that includes all forms of nitrogen oxides (NO, NO_2, NO_3) which are emitted as byproducts of the combustion process.

2.8.2 CALIFORNIA REGULATIONS

The CARB, which became part of the California EPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. The California CAA mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. The CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for sulfates, visibility, hydrogen sulfide, and vinyl chloride. However at this time, hydrogen sulfide and vinyl chloride are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (15) (7).

Local air quality management districts, such as the SCAQMD, regulate air emissions from commercial and light industrial facilities. All basins have been formally designated as attainment or non-attainment for each CAAQS.

Non-attainment areas are required to prepare air quality management plans that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a five percent or more annual reduction in emissions or 15 percent or more in a period of three years for ROGs, NO_x, CO and PM_{10}. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than five percent per year under certain circumstances.

2.8.3 AIR QUALITY MANAGEMENT PLANNING

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMPs) to meet the state and federal ambient air quality standards (16). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.9.

2.9 EXISTING PROJECT SITE AIR QUALITY CONDITIONS

Existing air quality conditions at the Project site would generally reflect ambient monitored conditions as presented previously at Table 2-3.

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3 PROJECT AIR QUALITY IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will violate an air quality standard or contribute to an existing or projected air quality violation. Additionally, the Project has been evaluated to determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is in non-attainment under an applicable federal or state ambient air quality standard. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 California Code of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (17):

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

The SCAQMD has also developed regional and localized significance thresholds for other regulated pollutants, as summarized at Table 3-1 (18). The SCAQMD's CEQA Air Quality Significance Thresholds (March 2015) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 3-1: MAXIMUM DAILY EMISSIONS THRESHOLDS (1 OF 2)

Pollutant	Construction	Operations
Regional Thresholds		
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

TABLE 3-1: MAXIMUM DAILY EMISSIONS THRESHOLDS (2 OF 2)

Pollutant	Construction	Operations
Localized Thresholds		
Phase 1 and 2		
NO_X	336 lbs/day (Mass Grading)	N/A
	176 lbs/day (Site Preparation Phases 1 & 2)	
CO	2,738 lbs/day (Mass Grading)	N/A
	1,269 lbs/day (Site Preparation Phases 1 &2)	
PM_{10}	48 lbs/day (Mass Grading)	N/A
	20 lbs/day (Site Preparation Phases 1 &2)	
$PM_{2.5}$	13 lbs/day (Mass Grading)	N/A
	6 lb/day (Site Preparation Phases 1 &2)	

3.3 PROJECT-RELATED SOURCES OF POTENTIAL IMPACT

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

On October 17, 2017, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the California Emissions Estimator Model™ (CalEEMod™) v2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (NO_x, VOC, PM_{10}, $PM_{2.5}$, SO_x, and CO) and greenhouse gas (GHG) emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (19). Accordingly, the latest version of CalEEMod™ has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendix 3.1 through 3.6.

3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of CO, VOCs, NO_X, SO_X, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Mass Grading
- Site Preparation
- Building Construction
- Paving
- Architectural Coating
- Off-site Improvements

Construction for Phase 1 is expected to commence in April 2018 and will last through December 2021 while construction for Phase 2 is expected to commence in December 2021 and last through December 2024. It should be noted that there is potential for construction during Phase 1 and Phase 2 to overlap. To account for the overlap, the construction schedule has been modified to accordingly so that Phase 1 Building Construction, Paving, and Architectural Coatings would overlap with Phase 2 Site Preparation activities. Construction duration by phase is shown on Table 3-2 Although the construction start day has already passed, the use of the April 2018 start date utilized in this analysis represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[2] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per CEQA guidelines.

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Phase 1			
Mass Grading	04/01/2018	11/02/2018	155
Site Preparation	11/03/2018	01/25/2019	60
Building Construction[3]	01/26/2019	12/10/2021	750
Paving	07/31/2021	12/31/2021	110
Architectural Coating	07/31/2021	12/31/2021	110
Phase 2			
Site Preparation	12/03/2021	01/27/2022	40
Building Construction[3]	01/28/2022	05/16/2024	600
Paving	05/17/2024	08/29/2024	75
Architectural Coating	08/30/2024	12/12/2024	75

Site specific construction fleet may vary due to specific project needs at the time of construction. The duration of construction activity was based on CalEEMod 2016.3.2 defaults as well as similar projects in order to be consistent with the Projects Opening Year. Construction equipment for all phases with the exception of Building Construction, are based CalEEMod 2016.3.2 defaults. Building Construction equipment has been proportionally increased since the number of days

[2] As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.2, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

[3] The number of days for Building Construction was reduced by 2, therefore the amount of equipment was increased by 2 for both Phases 1 and 2.

during Building Construction was adjusted to meet the 2021 and 2025 Opening Years. Please refer to specific detailed modeling inputs/outputs contained in Appendix 3.2 of this analysis. A detailed summary of construction equipment assumptions by phase is provided at Table 3-3

TABLE 3-3: CONSTRUCTION EQUIPMENT

Activity	Equipment	Number	Hours Per Day
Mass Grading			
Mass Grading	Graders	1	8
	Rubber Tired Dozers	2	8
	Scrapers	4	8
Phase 1 and 2			
Site Preparation	Rubber Tired Dozers	1	8
	Tractors/Loaders/Backhoes	1	8
Building Construction	Cranes	2	8
	Forklifts	6	8
	Generator Sets	2	8
	Tractors/Loaders/Backhoes	6	8
	Welders	2	8
Paving	Paving Equipment	2	8
	Rollers	2	8
	Pavers	2	8
Architectural Coating	Air Compressors	1	8

Dust is typically a major concern during rough grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called “fugitive emissions”. Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). The CalEEMod model was utilized to calculate fugitive dust emissions resulting from this phase of activity. According to information provided by the client, the Project site is expected to is expected to be balanced therefore no import/export will be required.

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from the applicant and the CalEEMod model.

OFF-SITE REGIONAL CONSTRUCTION-EMISSIONS ASSESSMENT

Construction emissions associated with off-site utility improvements would occur as part of the Project. Channel, sewer line, and lift station improvements would occur outside of the Project

boundary. Although a specific schedule of off-site utility and infrastructure improvements is unknown, based upon Urban Crossroads' extensive experience in analyzing off-site utility improvements for similar types of projects, the impacts associated with these expected activities are not expected to exceed the daily emission quantities identified for Project-related construction activities. As such, no impacts associated with off-site utility improvements beyond what has already been identified in this report are expected to occur. The analysis herein is conservative and anticipates operation of several pieces of equipment that would be operating at any given time period, during off-site utility improvements, the disturbance areas would be limited and less than what is evaluated for the Project site.

3.4.1 CONSTRUCTION EMISSIONS SUMMARY

SCAQMD Rules that are currently applicable during construction activity for this Project include but are not limited to: Rule 1113 (Architectural Coatings) (3) and Rule 403 (Fugitive Dust) (4). Notwithstanding, credit for BACMs AQ-1 (Rule 403) and AQ-2 (Rule 1113) have been taken.

Impacts without Mitigation

The estimated maximum daily construction emissions without mitigation are summarized on Table 3-4. Detailed construction model outputs are presented in Appendix 3.1 and 3.2. Maximum daily emissions of NO_X,PM_{10}, and $PM_{2.5}$ are expected to occur in 2018. Although overlap in construction activities is expected to occur in 2021, the majority of construction-source NO_x emissions would be generated from the hauling of soil during mass grading activities. The maximum daily emissions for VOCs, CO, and SO_X are expected to occur in 2021 when Phase 1 Building Construction, Paving, and Architectural Coating activities are expected to overlap with Phase 2 Site Preparation activities. Under the assumed scenarios, as previously presented in section 3.4, emissions resulting from the Project construction has the potential to exceed numerical thresholds established by the SCAQMD for emissions of VOCs.

TABLE 3-4: EMISSIONS SUMMARY OF OVERALL CONSTRUCTION (WITHOUT MITIGATION)

Year	Emissions (pounds per day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
2018	7.55	89.09	46.54	0.09	10.45	6.23
2019	6.76	56.78	48.42	0.11	6.40	3.67
2020	6.10	51.54	46.57	0.11	6.00	3.26
2021[4]	186.13	74.70	70.57	0.15	10.24	5.76
2022	4.10	36.10	37.93	0.07	2.95	1.96
2023	3.78	32.83	37.40	0.07	2.72	1.74
2024	211.39	30.78	37.07	0.07	2.53	1.57
Maximum Daily Emissions	**211.39**	**89.09**	**70.57**	**0.15**	**10.45**	**6.23**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**

[4] It should be noted that emissions for 2021 include the overlap of Phase 1 Building Construction, Paving, and Architectural Coating activities and Phase 2 Site Preparation activities.

Impacts with Mitigation

The estimated maximum daily construction emissions with mitigation are summarized on Table 3-5. Detailed construction model outputs are presented in Appendix 3.3 and 3.4. MM AQ-1 is recommended to reduce the severity of the impacts. After implementation of MM AQ-1, Project construction-source emissions will be less than significant.

TABLE 3-5: EMISSIONS SUMMARY OF OVERALL CONSTRUCTION (WITH MITIGATION)

Year	Emissions (pounds per day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
2018	7.55	89.09	46.54	0.09	10.45	6.23
2019	6.76	56.78	48.42	0.11	6.40	3.67
2020	6.10	51.54	46.57	0.11	6.00	3.26
2021[4]	44.12	74.70	70.57	0.15	10.24	5.76
2022	4.10	36.10	37.93	0.07	2.95	1.96
2023	3.78	32.83	37.40	0.07	2.72	1.74
2024	42.53	30.78	37.07	0.07	2.53	1.57
Maximum Daily Emissions	**44.12**	**89.09**	**70.57**	**0.15**	**10.45**	**6.23**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of CO, VOCs, NO_X, SO_X, PM_{10}, and $PM_{2.5}$. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

3.5.1 AREA SOURCE EMISSIONS

Architectural Coatings

Over a period of time the buildings that are part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using the CalEEMod model.

Consumer Products

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other

photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within the CalEEMod model.

Hearths/Fireplaces

The emissions associated with use of hearths/fireplaces were calculated based on assumptions provided in the CalEEMod model. The Project is required to comply with SCAQMD Rule 445, which prohibits the use of wood burning stoves and fireplaces in new development. In order to account for the requirements of this Rule, the unmitigated CalEEMod model estimates were adjusted to remove wood burning stoves and fireplaces. As the project is required to comply with SCAQMD Rule 445, the removal of wood burning stoves and fireplaces is not considered "mitigation" although it must be identified as such in CalEEMod in order to treat the case appropriately.

Landscape Maintenance Equipment

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

3.5.2 Energy Source Emissions

Combustion Emissions Associated with Natural Gas and Electricity

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

3.5.3 Mobile Source Emissions

Vehicles

Project operational (vehicular) impacts are dependent on both overall daily vehicle trip generation and the effect of the Project on peak hour traffic volumes and traffic operations in the vicinity of the Project. The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip characteristics available from the report, *Canterwood (Tentative Tract Map No. 37439) Focused Traffic Impact Assessment* (Urban Crossroads) 2018 were utilized in this analysis (20).

3.5.4 Operational Emissions Summary

The estimated operation-source emissions are summarized on Table 3-6. During Phase 1, the Project has the potential to exceed the numerical thresholds of significance established by the

SCAQMD for emissions of VOCs. During Phase 2, the Project will exceed the thresholds of significance for emissions of VOCs and NO_X. Detailed construction model outputs are presented in Appendix 3.5 and 3.6. It is important to note that the majority of VOC emissions are derived from consumer products. For analytical purposes, consumer products include cleaning supplies, kitchen aerosols, cosmetics and toiletries (1). As such, the Project cannot meaningfully control consumer products via mitigation thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce this impact to less than significant levels. Although MM AQ-2 is required to reduce operational emissions, it should be noted that there is no way to quantify these reductions in the CalEEMod model. Moreover, no additional feasible mitigation measures exist that would further reduce these emissions to levels that are less-than-significant. It should be noted that over 84 percent of operational-source NO_X emissions would be generated from the mobile activities from vehicles that cannot be mitigated. Neither the Project Applicant nor the Lead Agency (County of Riverside) can substantively or materially affect reductions in Project mobile-source emissions beyond the regulatory requirements and mitigation measures identified herein. Thus, these emissions are considered significant and unavoidable.

TABLE 3-6: MAXIMUM DAILY OPERATIONAL EMISSIONS SUMMARY (1 OF 2)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Phase 1						
Area Source	68.56	5.56	28.45	0.04	0.57	0.57
Energy Source	0.29	2.45	1.04	0.02	0.20	0.20
Mobile	6.14	44.08	73.80	0.31	22.36	6.12
Total Maximum Daily Emissions	**74.99**	**52.09**	**103.29**	**0.36**	**23.13**	**6.89**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**
Operational Activities – Summer Scenario	**Emissions (pounds per day)**					
	VOC	**NO_x**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Phase 1 + Phase 2						
Area Source	24.14	10.07	51.51	0.06	1.03	1.03
Energy Source	0.52	4.43	1.87	0.03	0.36	0.36
Mobile	11.10	79.62	133.33	0.55	40.40	11.06
Total Maximum Daily Emissions	**135.75**	**94.12**	**186.73**	**0.64**	**41.79**	**12.45**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**NO**	**NO**	**NO**	**NO**

TABLE 3-6: MAXIMUM DAILY OPERATIONAL EMISSIONS SUMMARY (2 OF 2)

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Phase 1						
Area Source	68.56	5.56	28.45	0.04	0.57	0.57
Energy Source	0.29	2.45	1.04	0.02	0.20	0.20
Mobile	5.22	44.15	63.80	0.28	22.36	6.13
Total Maximum Daily Emissions	**74.07**	**52.16**	**93.29**	**0.33**	**23.13**	**6.89**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**NO**	**NO**	**NO**	**NO**	**NO**
Phase 1 + Phase 2						
Area Source	124.14	10.07	51.51	0.06	1.03	1.03
Energy Source	0.52	4.43	1.89	0.03	0.36	0.36
Mobile	9.42	79.76	115.25	0.51	40.40	11.07
Total Maximum Daily Emissions	**134.08**	**94.26**	**168.65**	**0.60**	**41.79**	**12.46**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**NO**	**NO**	**NO**	**NO**

3.6 LOCALIZED SIGNIFICANCE - CONSTRUCTION ACTIVITY

BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLD (LST) DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (Methodology) (19). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The significance of localized emissions impacts depends on whether ambient levels in the vicinity of any given project are above or below State standards. In the case of CO and NO_2, if ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a state or federal standard, then project emissions are considered significant if they increase ambient concentrations by a measurable amount. This would apply to PM_{10} and $PM_{2.5}$; both of which are non-attainment pollutants.

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (21).

EMISSIONS CONSIDERED

SCAQMD's Methodology clearly states that "off-site mobile emissions from the Project should NOT be included in the emissions compared to LSTs (22)." Therefore, for purposes of the construction LST analysis only emissions included in the CalEEMod "on-site" emissions outputs were considered.

APPLICABILITY OF LSTS FOR THE PROJECT

For this Project, the appropriate Source Receptor Area (SRA) for the LST is the Perris Valley monitoring station (SRA 24). LSTs apply to carbon monoxide (CO), nitrogen dioxide (NO_2), particulate matter ≤ 10 microns (PM_{10}), and particulate matter ≤ 2.5 microns ($PM_{2.5}$). The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- The CalEEMod model is utilized to determine the maximum daily on-site emissions that will occur during construction activity.
- The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds (23) is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.
- If the total acreage disturbed is less than or equal to five acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a Project has the potential to result in a significant impact (the SCAQMD recommends that Projects exceeding the screening look-up tables undergo dispersion modeling to determine actual impacts). The look-up tables establish a maximum daily emissions threshold in pounds per day that can be compared to CalEEMod outputs.

MAXIMUM DAILY DISTURBED-ACREAGE

Table 3-7 is used to determine the maximum daily disturbed-acreage for purposes of modeling localized emissions. As shown, the proposed Project could actively disturb approximately 5.5 acres per day during mass grading activities and 0.5 acre per day during site preparation activities of construction. For the purposes of this analysis, and as a conservative measure, the SCAQMD look-up tables of 5 acres are used to determine localized significance thresholds for mass grading activities and 1 acre for site preparation activities. Although the project site is greater than 1 acre, the LST lookup tables can be used as a conservative measure to show that even if the daily emissions from all project construction were emitted on a 1 acre site (and therefore concentrated

over a smaller area which would result in greater site adjacent concentrations), if the impacts are less than significant, then a more detailed evaluation is not necessary

TABLE 3-7: MAXIMUM DAILY DISTURBED-ACREAGE

Construction Phase	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Mass Grading					
Mass Grading	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	2	0.5	8	1
	Scrapers	4	1	8	4
Total acres disturbed per day during Mass Grading					5.5
Site Preparation (Phases 1 & 2)					
Site Preparation	Rubber Tired Dozers	1	0.5	8	0.5
Total acres disturbed per day during Site Preparation					0.5

Sensitive Receptors

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, persons with preexisting respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that potentially house these persons or places where they gather to exercise are defined as "sensitive receptors".

Sensitive receptor locations near the Project site include existing residential homes in the vicinity of the Project. The nearest sensitive receptors are existing residential homes located 237 feet/72.24 meters west of the Project site. For purpose of analysis, the nearest sensitive receptor at location R2 was utilized as it represents existing residential homes. Although Locations R5 and R6 are closer in proximity, the lots are currently vacant therefore, no sensitive receptors currently reside at these locations and therefore would not be exposed to emissions during construction of the Project.

R1: Located approximately 274 feet west of the Project site, R1 represents the existing residential home on Leon Road.

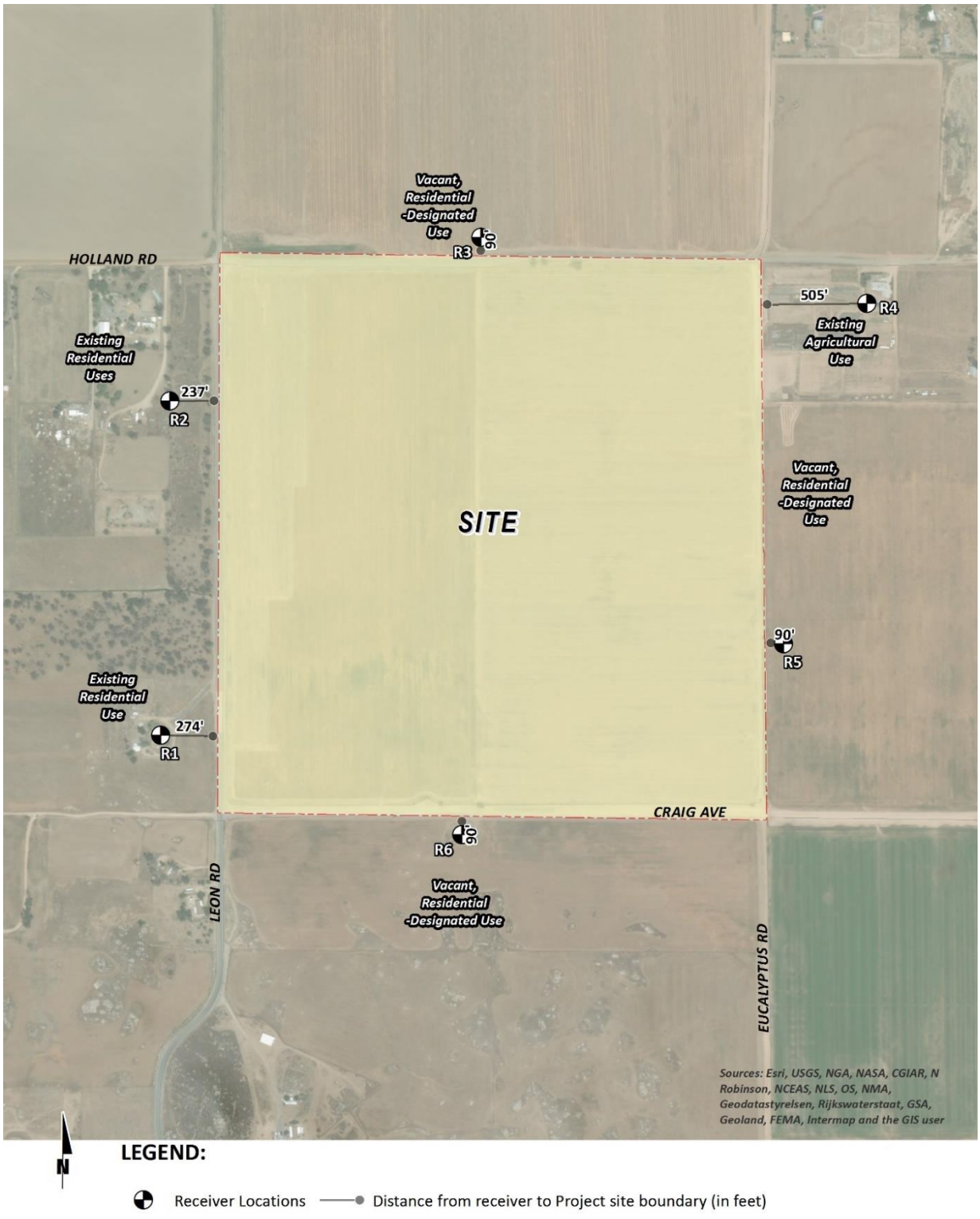
R2: Location R2 represents existing residential homes west of the Project site across Leon Road at roughly 237 feet.

R3: Location R3 represents existing agricultural use and vacant land north of the Project site which is designated as residential land use at approximately 90 feet

R4: Location R4 represents existing residential home within agricultural use located approximately 505 feet east of the Project site.

R5: Location R5 represents vacant land east of the Project site which is designated as residential land use at approximately 90 feet.

EXHIBIT 3-A: RECEPTOR LOCATIONS



R6: Location R6 represents vacant land south of the Project site which is designated as residential land use at approximately 90 feet.

CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

Since the total acreage disturbed is less than five acres per day for both the site preparation phase and the grading phase, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized, consistent with SCAQMD guidance, in order to interpolate the threshold values for the other disturbed acreage not identified. As previously noted, a 72.24-meter receptor distance is utilized to determine the LSTs for emissions of CO, NO_2, PM_{10}, and $PM_{2.5}$.

As previously stated, for the purposes of this analysis, and as a conservative measure, the SCAQMD look-up tables of 5-acres are used to determine localized significance thresholds for mass grading activities and 1 acre per day for site preparation activities. Although the project site is greater than 1 acre, the LST lookup tables can be used to show that even if the daily emissions from all project construction were emitted on a 1 acre site (and therefore concentrated over a smaller area which would result in greater site adjacent concentrations), the impacts would be less than significant

Impacts without Mitigation

Table 3-8 identifies the localized impacts at the nearest receptor location (R2) in the vicinity of the Project. Without mitigation, would not exceed the applicable thresholds of significance for any criteria pollutants. Outputs from the model runs for construction LSTs are provided in Appendix 3.1 and 3.2.

TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY CONSTRUCTION (1 OF 2)

On-Site Mass Grading Emissions	**Emissions (pounds per day)**			
	NO_x	**CO**	**PM_{10}**	**$PM_{2.5}$**
Maximum Daily Emissions	**89.01**	**45.81**	**10.25**	**6.18**
SCAQMD Localized Threshold	336	2,738	48	13
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
On-Site Site Preparation Emissions	**Emissions (pounds per day)**			
	NO_x	**CO**	**PM_{10}**	**$PM_{2.5}$**
Phase 1				
Maximum Daily Emissions	**15.19**	**6.71**	**3.15**	**2.02**
SCAQMD Localized Threshold	176	1,269	20	6
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

TABLE 3-8: LOCALIZED SIGNIFICANCE SUMMARY CONSTRUCTION (2 OF 2)

On-Site Site Preparation Emissions	Emissions (pounds per day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
Phase 2				
Maximum Daily Emissions	**12.87**	**6.30**	**2.99**	**1.88**
SCAQMD Localized Threshold	176	1,269	20	6
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

OFF-SITE LOCALIZED CONSTRUCTION-EMISSIONS ASSESSMENT

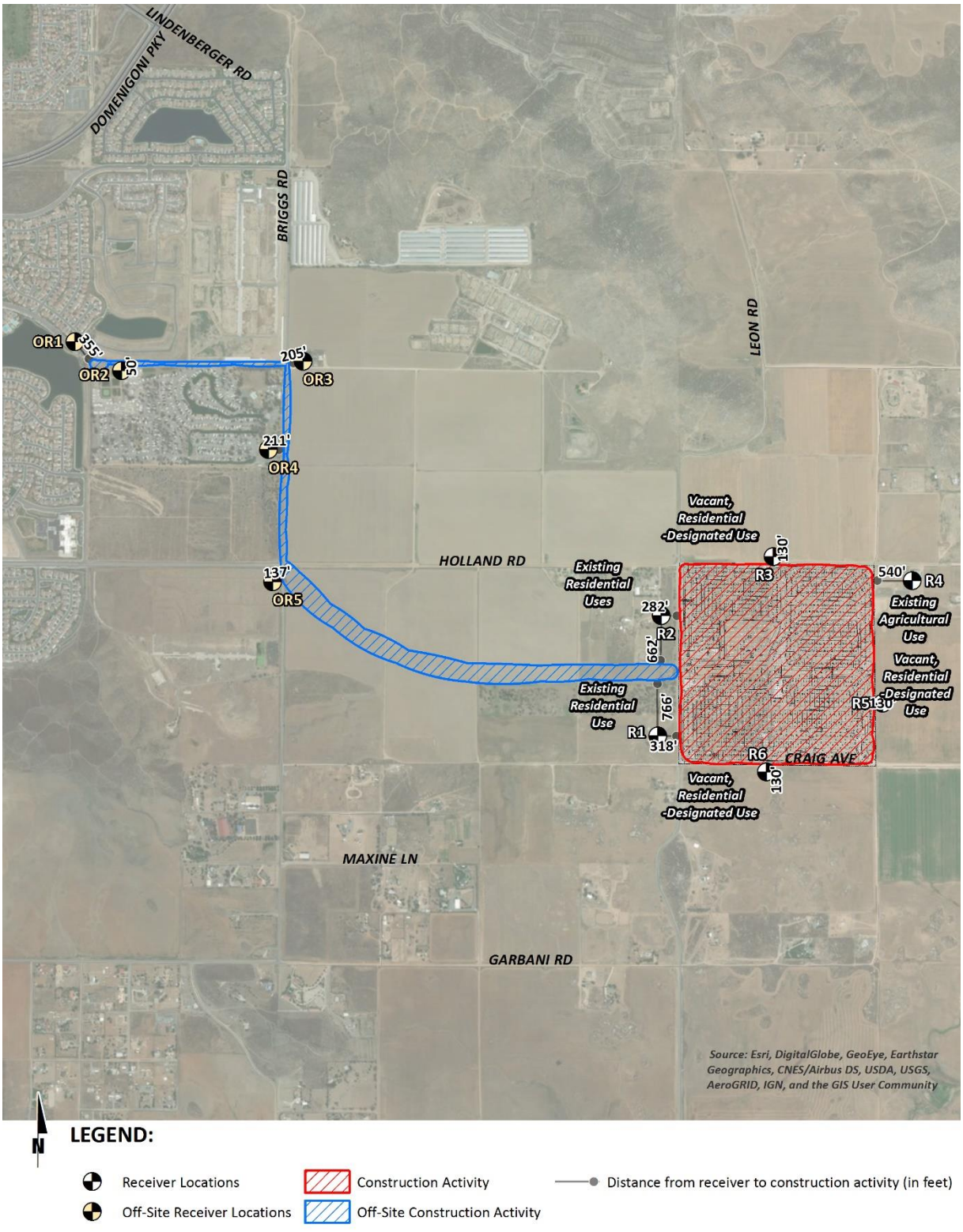
As a part of Project construction, an off-site channel, sewer line, and lift station will be constructed adjacent to receptor locations located further from the Project site. As such, this analysis identifies off-site receptor ("OR") locations, OR1 to OR5, adjacent to Project off-site construction activity locations as shown on Exhibit 3-B. Table 3-9 shows the off-site construction activity at the off-site receptor locations which are located adjacent to the Project site and off-site construction activities. Although the off-site receptors are located at a closer distance, any localized impacts associated with off-site utility improvements would occur in limited daily disturbance areas due to physical constraints and would require less equipment. As such, off-site construction emissions would not result in any localized impacts beyond those identified for peak site preparation and grading activities as previously identified.

TABLE 3-9: OFF-SITE RECEPTOR LOCATIONS

Receptor Location	Distance to Construction Activity (Feet)[1]	Distance to Construction Activity (Meters)
OR1	355	108.2
OR2	50	15.2
OR3	205	62.5
OR4	211	64.3
OR5	137	41.8

[1] Distance from the nearest point of construction activity to the nearest receiver.

EXHIBIT 3-B: OFF-SITE RECEPTOR LOCATIONS



3.7 LOCALIZED SIGNIFICANCE – LONG-TERM OPERATIONAL ACTIVITY

The proposed project involves the construction and operation of 574 single family residential dwelling units and an 8.2-acre park. According to SCAQMD LST methodology, LSTs would apply to the operational phase of a proposed project, if the project includes stationary sources, or attracts mobile sources that may spend long periods queuing and idling at the site (e.g., transfer facilities and warehouse buildings). The proposed project does not include such uses, and thus, due to the lack of significant stationary source emissions, no long-term localized significance threshold analysis is needed.

3.8 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific carbon monoxide (CO) "hot spots" is not needed to reach this conclusion.

An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. At the time of the 1993 Handbook, the SCAB was designated nonattainment under the California AAQS and National AAQS for CO (24).

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment, as previously noted in Table 2-2. Also, CO concentrations in the Project vicinity have steadily declined, as indicated by historical emissions data presented previously at Table 2-3.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 3-10.

TABLE 3-10: CO MODEL RESULTS

Intersection Location	Carbon Monoxide Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire-Veteran	4.6	3.5	4.2
Sunset-Highland	4	4.5	3.9
La Cienega-Century	3.7	3.1	5.8
Long Beach-Imperial	3	3.1	9.3

Source: 2003 AQMP

Notes: ppm: parts per million. Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 9.3 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 8.6 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (24). In contrast, the ambient 8-hr CO concentration within the Project study area is estimated at 1.4 ppm—1.6 ppm (please refer to previous Table 2-3). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection to more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (25).

Traffic volumes generating the CO concentrations for the "hot spot" analysis, shown on Table 3-11. The busiest intersection evaluated was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day. The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).[5] At buildout of the Project, the highest daily traffic volumes generated at the roadways within the vicinity of the Project are expected to generate less than the highest daily traffic volumes generated at the busiest intersection in the CO "hot spot" analysis. As such, the Project would not likely exceed the most stringent 1-hour CO standard.

TABLE 3-11: TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Wilshire-Veteran	560/933	721/1,400	4,954/2,069	1,830/3,317	8,062/7,719
Sunset-Highland	1,551/2,238	2,304/1,832	1,417/1,764	1,342/1,540	6,614/5,374
La Cienega-Century	821/1,674	1,384/2,029	2,540/2,243	1,890/2,728	6,634/8,674
Long Beach-Imperial	756/1,150	479/944	1,217/2,020	1,760/1,400	4,212/5,514

Source: 2003 AQMP
Notes: vph-vehicles per hour

5 Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

The proposed Project considered herein would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study, or based on representative BAAQMD CO threshold considerations. Review of the traffic volumes as shown on Exhibit 6-3 of *Canterwood (Tentative Tract Map No. 37439) Traffic Impact Assessment* (TIA) indicates that the maximum average daily trip (ADT) volumes for existing plus ambient (EAP) growth plus the Project for the year 2025, is 30,900 vehicles per day along Antelope Road and Scott Road. Furthermore, the maximum hourly volume at the study area intersections 3,316 AM peak hour volumes and 3,970 PM peak hour volumes which do not exceed the 24,000 vehicles per hour (VPH) (20). Therefore, CO "hot spots" are not an environmental impact of concern for the proposed Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

3.9 AIR QUALITY MANAGEMENT PLANNING

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the Southern California Association of Governments (SCAG), county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the Basin. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMPs) to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (26). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), a planning document that supports the integration of land use and transportation to help the region meet the federal Clean Air Act requirements (27). The Project's consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the SCAQMD's CEQA Air Quality Handbook (1993) (28). These indicators are discussed below:

- Consistency Criterion No. 1: The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay the

timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

Construction Impacts

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if localized significance thresholds (LSTs) or regional significance thresholds were exceeded. The Project would not exceed the applicable LST thresholds or regional significance thresholds for construction activity after implementation of applicable mitigation measures. Therefore, the Project would not conflict with the AQMP according to this criterion.

Operational Impacts

The Project regional analysis demonstrates that Project operational-source emissions has the potential to exceed applicable regional significance thresholds for operational activities. As such, the Project has the potential to result in or cause violations of the CAAQS and NAAQS.

On the basis of the preceding discussion, the Project is determined to potentially conflict with the first criterion.

- Consistency Criterion No. 2: The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

Overview

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the Southern California Association of Governments (SCAG), which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in the County of Riverside General Plan (referred to as the "General Plan") is considered to be consistent with the AQMP.

Construction Impacts

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

Operational Impacts

The General Plan currently designates the Project site as "Medium Density Residential (MDR)". MDR land uses allow for detached single family detached and attached residential dwelling units with a density ranging from 2 dwelling unit per acre to 5 dwelling unit per acre. Limited animal-keeping and agriculture is permitted (29).

The Project proposes to construct 574 single family residential dwelling units and an 8.2-acre park which is consistent with the land use designation. Notwithstanding, Project operational-

source emissions have the potential to exceed the threshold of significance and therefore, the Project will conflict with the goals and objectives of the AQMP.

AQMP Consistency Conclusion

The Project has the potential to result in or cause NAAQS or CAAQS violations. The proposed Project however, is consistent with the land use and growth intensities reflected in the adopted General Plan. Notwithstanding, Project operational-source emissions have the potential to exceed the applicable regional thresholds of significance. Therefore, the Project will conflict with the goal and objectives of the AQMP and have a potentially significant impact with respect to this threshold.

3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, child care centers, and athletic facilities can also be considered as sensitive receptors.

Results of the LST analysis indicate that, with application of mitigation, the Project will not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial criteria pollutant concentrations during Project construction.

Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO "hotspot." Therefore sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

TOXIC AIR POLLUTANTS – PROJECT CONSTRUCTION

The construction equipment would emit diesel particulate matter (DPM), which is a carcinogen, However, the DPM emissions would be short-term in nature. Determination of risk from DPM is considered over a 70-year exposure time. As such, considering the short time frame for construction, exposure to DPM during construction is anticipated to be less than significant.

3.11 ODORS

Substantial odor-generating sources include land uses such as agricultural activities, feedlots, wastewater treatment facilities, landfills or various heavy industrial uses. The Project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential sources of operational odors generated by the Project would include disposal of miscellaneous commercial refuse. Consistent with County requirements, all Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with solid waste regulations, thereby precluding substantial generation of odors due to temporary holding of refuse on-site.

3.12 CUMULATIVE IMPACTS

Federal standards designated the Project area as an extreme non-attainment area for ozone, attainment for PM_{10}, and non-attainment for $PM_{2.5}$, and lead. State standards designated the Project area as nonattainment for ozone, PM_{10}, $PM_{2.5}$ and attainment for lead.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (30). In this report the AQMD clearly states (Page D-3):

"…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

CRITERION 1; REGIONAL EMISSIONS ANALYSIS

Construction Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that, after implementation of applicable mitigation measures, Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

Operational Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project operational-source air pollutant emissions has the potential to result in exceedances

of regional thresholds. Therefore, Project operational-source emissions are considered cumulatively significant and unavoidable.

4 FINDINGS & CONCLUSIONS

CONSTRUCTION-SOURCE EMISSIONS

REGIONAL IMPACTS

For regional emissions, the Project has the potential to exceed the numerical thresholds of significance established by the SCAQMD for emissions of VOCs. It should be noted that impacts without mitigation take credit for reductions achieved through standard regulatory requirements (Rule 403 and Rule 1113). MM AQ-1 is recommended to reduce VOC impacts. After implementation of MM AQ-1, Project construction-source emissions would not exceed the applicable SCAQMD thresholds of significance for any criteria pollutants. Therefore, a less than significant impact would occur.

LOCALIZED IMPACTS

The Project would not exceed the SCAQMD's localized significance thresholds for any criteria pollutants. It should be noted that impacts without mitigation take credit for reductions achieved through standard regulatory requirements (Rule 403 and Rule 1113). Therefore, a less than significant impact would occur for Project localized construction-source emissions.

Odors

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less-than-significant.

OPERATIONAL-SOURCE EMISSIONS

REGIONAL IMPACTS

For regional emissions, the Project has the potential to exceed the numerical thresholds of significance established by the SCAQMD for emissions of VOCs during Phase 1. The Project has the potential to exceed the threshold of significance for emissions of both VOCs and NO_x during Phase 2. It is important to note that the majority of VOC emissions are derived from consumer products. For analytical purposes, consumer products include cleaning supplies, kitchen aerosols, cosmetics and toiletries (1). As such, the Project cannot meaningfully control consumer products via mitigation thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce this impact to less than significant levels. Although MM AQ-2 is required to reduce operational emissions, it should be noted that there is no way to quantify these reductions in the CalEEMod model. Moreover, no additional feasible mitigation measures exist that would further reduce these emissions to levels that are less-than-significant. It should be noted that over 84 percent of operational-source NO_X emissions would be generated

from the mobile activities from vehicles that cannot be mitigated. Neither the Project Applicant nor the Lead Agency (County of Riverside) can substantively or materially affect reductions in Project mobile-source emissions beyond the regulatory requirements and mitigation measures identified herein. Thus, these emissions are considered significant and unavoidable.

LOCALIZED IMPACTS

Project operational-source emissions would not result in or cause a significant localized air quality impact as discussed in the operational LSTs section of this report. The proposed Project would not result in a significant CO "hotspot" as a result of Project related traffic during ongoing operations, nor would the Project result in a significant adverse health impact as discussed in Section 3.8, thus a less than significant impact to sensitive receptors during operational activity is expected.

ODORS

Substantial odor-generating sources include land uses such as agricultural activities, feedlots, wastewater treatment facilities, landfills or various heavy industrial uses. The Project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential sources of operational odors generated by the Project would include disposal of miscellaneous residential refuse. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances (2). Consistent with County requirements, all Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with solid waste regulations. Potential operational-source odor impacts are therefore considered less-than-significant.

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6 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Canterwood (Tentative Tract Map No. 37439) Project. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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

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PROFESSIONAL AFFILIATIONS

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

PROFESSIONAL CERTIFICATIONS

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

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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

TABLE 2-3

National Ambient Air Quality Standards (NAAQS) Attainment Status - South Coast Air Basin

Criteria Pollutant	Averaging Time	Designation[a]	Attainment Date[b]
Ozone (O_3)	(1979) **1-Hour** (0.12 ppm)[c]	Nonattainment ("extreme")	2/26/2023 (revised deadline)
	(2015) **8-Hour** (0.070 ppm)[d]	Pending – Expect Nonattainment ("extreme")	Pending (beyond 2032)
	(2008) **8-Hour** (0.075 ppm)[d]	Nonattainment ("extreme")	7/20/2032
	(1997) **8-Hour** (0.08 ppm)[d]	Nonattainment ("extreme")	6/15/2024
PM2.5[e]	(2006) **24-Hour** (35 µg/m^3)	Nonattainment ("serious")	12/31/2019
	(2012) **Annual** (12.0 µg/m^3)	Nonattainment ("moderate")	12/31/2021
	(1997) **Annual** (15.0 µg/m^3)	Attainment (final determination pending)	4/5/2015 (attained 2013)
PM10[f]	(1987) **24-hour** (150 µg/m^3)	Attainment (Maintenance)	7/26/2013 (attained)
Lead (Pb)[g]	(2008) **3-Months Rolling** (0.15 µg/m^3)	Nonattainment (Partial) (Attainment determination to be requested)	12/31/2015
CO	(1971) **1-Hour** (35 ppm)	Attainment (Maintenance)	6/11/2007 (attained)
	(1971) **8-Hour** (9 ppm)	Attainment (Maintenance)	6/11/2007 (attained)
NO_2[h]	(2010) **1-Hour** (100 ppb)	Unclassifiable/Attainment	N/A (attained)
	(1971) **Annual** (0.053 ppm)	Attainment (Maintenance)	9/22/1998 (attained)
SO_2[i]	(2010) **1-Hour** (75 ppb)	Designations Pending (expect Unclassifiable/Attainment)	N/A (attained)
	(1971) **24-Hour** (0.14 ppm) (1971) **Annual** (0.03 ppm)	Unclassifiable/Attainment	3/19/1979 (attained)

a) U.S. EPA often only declares Nonattainment areas; everywhere else is listed as Unclassifiable/Attainment or Unclassifiable

b) A design value below the NAAQS for data through the full year or smog season prior to the attainment date is typically required for an attainment demonstration

c) The 1979 1-hour ozone NAAQS (0.12 ppm) was revoked, effective 6/15/05 ; however, the Basin has not attained this standard and therefore has some continuing obligations with respect to the revoked standard; original attainment date was 11/15/2010; the revised attainment date is 2/6/23

d) The 2008 8-hour ozone NAAQS (0.075 ppm) was revised to 0.070 ppm, effective 12/28/15 with classifications and implementation goals to be finalized by 10/1/17; the 1997 8-hour ozone NAAQS (0.08 ppm) was revoked in the 2008 ozone NAAQS implementation rule, effective 4/6/15; there are continuing obligations under the revoked 1997 and revised 2008 ozone NAAQS until they are attained

e) The attainment deadline for the 2006 24-hour PM2.5 NAAQS was 12/31/15 for the former "moderate" classification; U.S.EPA approved reclassification to "serious," effective 2/12/16 with an attainment deadline of 12/31/2019; the 2012 (proposal year) annual PM2.5 NAAQS was revised on 1/15/13, effective 3/18/13, from 15 to 12 µg/m^3; new annual designations were final 1/15/15, effective 4/15/15; on July 25, 2016 U.S. EPA finalized a determination that the Basin attained the 1997 annual (15.0 µg/m^3) and 24-hour PM2.5 (65 µg/m^3) NAAQS, effective August 24, 2016

f) The annual PM10 NAAQS was revoked, effective 12/18/06; the 24-hour PM10 NAAQS deadline was 12/31/2006; the Basin's Attainment Re-designation Request and PM10 Maintenance Plan was approved by U.S. EPA on 6/26/13, effective 7/26/13

g) Partial Nonattainment designation – Los Angeles County portion of the Basin only for near-source monitors; expect to remain in attainment based on current monitoring data; attainment re-designation request pending

h) New 1-hour NO_2 NAAQS became effective 8/2/10, with attainment designations 1/20/12; annual NO_2 NAAQS retained

i) The 1971 annual and 24-hour SO2 NAAQS were revoked, effective 8/23/10; however, these 1971 standards will remain in effect until one year after U.S. EPA promulgates area designations for the 2010 SO2 1-hour NAAQS; final area designations expected by 12/31/20 due to new source-specific monitoring requirements; Basin expected to be in attainment due to ongoing clean data

TABLE 2-4

National Ambient Air Quality Standards (NAAQS) Attainment Status

Coachella Valley Portion of the Salton Sea Air Basin

Criteria Pollutant	Averaging Time	Designation[a]	Attainment Date[b]
Ozone (O_3)	(1979) **1-Hour** (0.12 ppm)[c]	Attainment	11/15/2007 (attained 12/31/2013)
	(2015) **8-Hour** (0.070 ppm)[d]	Pending – Expect Nonattainment (Severe)	Pending
	(2008) **8-Hour** (0.075 ppm)[d]	Nonattainment (Severe-15)	7/20/2027
	(1997) **8-Hour** (0.08 ppm)[d]	Nonattainment (Severe-15)	6/15/2019
PM2.5[e]	(2006) **24-Hour** (35 µg/m^3)	Unclassifiable/Attainment	N/A (attained)
	(2012) **Annual** (12.0 µg/m^3)	Unclassifiable/Attainment	N/A (attained)
	(1997) **Annual** (15.0 µg/m^3)	Unclassifiable/Attainment	N/A (attained)
PM10[f]	(1987) **24-hour** (150 µg/m^3)	Nonattainment ("serious")	12/31/2006
Lead (Pb)	(2008) **3-Months Rolling** (0.15 µg/m^3)	Unclassifiable/Attainment	Unclassifiable/ Attainment
CO	(1971) **1-Hour** (35 ppm)	Unclassifiable/Attainment	N/A (attained)
	(1971) **8-Hour** (9 ppm)	Unclassifiable/Attainment	N/A (attained)
NO_2[g]	(2010) **1-Hour** (100 ppb)	Unclassifiable/Attainment	N/A (attained)
	(1971) **Annual** (0.053 ppm)	Unclassifiable/Attainment	N/A (attained)
SO_2[h]	(2010) **1-Hour** (75 ppb)	Designations Pending	N/A
	(1971) **24-Hour** (0.14 ppm) (1971) **Annual** (0.03 ppm)	Unclassifiable/Attainment	Unclassifiable/ Attainment

a) U.S. EPA often only declares Nonattainment areas; everywhere else is listed as Unclassifiable/Attainment or Unclassifiable

b) A design value below the NAAQS for data through the full year or smog season prior to the attainment date is typically required for an attainment demonstration

c) The 1979 1-hour ozone NAAQS (0.12 ppm) was revoked, effective 6/15/05; the Southeast Desert Modified Air Quality Management Area, including the Coachella Valley, had not timely attained this standard by the 11/15/07 "severe-17" deadline, based on 2005-2007 data; on 8/25/14, U.S. EPA proposed a clean data finding based on 2011–2013 data and a determination of attainment for the former 1-hour ozone NAAQS for the Southeast Desert nonattainment area; this rule was finalized by U.S. EPA on 4/15/15, effective 5/15/15, that included preliminary 2014 data

d) The 2008 8-hour ozone NAAQS (0.075 ppm) was revised to 0.070 ppm, effective 12/28/15 with classifications and implementation goals to be finalized by 10/1/17; the 1997 8-hour ozone NAAQS (0.08 ppm) was revoked in the 2008 ozone NAAQS implementation rule, effective 4/6/15; there are continuing obligations under the 1997 and 2008 ozone NAAQS until they are attained

e) The annual PM2.5 standard was revised on 1/15/13, effective 3/18/13, from 15 to 12 µg/m^3

f) The annual PM10 standard was revoked, effective 12/18/06; the 24-hour PM10 NAAQS attainment deadline was 12/31/2006; the Coachella Valley Attainment Re-designation Request and PM10 Maintenance Plan was postponed by U.S. EPA pending additional monitoring and analysis in the southeastern Coachella Valley

g) New 1-hour NO_2 NAAQS became effective 8/2/10; attainment designations 1/20/12; annual NO_2 NAAQS retained

h) The 1971 Annual and 24-hour SO_2 NAAQS were revoked, effective 8/23/10; however, these 1971 standards will remain in effect until one year after U.S. EPA promulgates area designations for the 2010 SO_2 1-hour standard; final area designations expected by 12/31/2020 with SSAB expected to be designated Unclassifiable/Attainment

The current status of CAAQS attainment for the pollutants with State standards is presented in Table 2-5 for the Basin and the Riverside County portion of the SSAB (Coachella Valley).

TABLE 2-5

California Ambient Air Quality Standards (CAAQS) Attainment Status
South Coast Air Basin and Coachella Valley portion of Salton Sea Air Basin

Pollutant	Averaging Time and Level[b]	Designation[a]	
		South Coast Air Basin	Coachella Valley
Ozone (O_3)	**1-Hour** (0.09 ppm)[c]	Nonattainment	Nonattainment
	8-Hour (0.070 ppm)[d]	Nonattainment	Nonattainment
PM2.5	**Annual** (12.0 µg/m^3)	Nonattainment	Attainment
PM10	**24-Hour** (50 µg/m^3)	Nonattainment	Nonattainment
	Annual (20 µg/m^3)	Nonattainment	Nonattainment
Lead (Pb)	**30-Day Average** (1.5 µg/m^3)	Attainment	Attainment
CO	**1-Hour** (20 ppm)	Attainment	Attainment
	8-Hour (9.0 ppm)	Attainment	Attainment
NO_2	**1-Hour** (0.18 ppm)	Attainment	Attainment
	Annual (0.030 ppm)	Attainment	Attainment
SO_2	**1-Hour** (0.25 ppm)	Attainment	Attainment
	24-Hour (0.04 ppm)	Attainment	Attainment
Sulfates	**24-Hour** (25 µg/m^3)	Attainment	Attainment
H_2S[c]	**1-Hour** (0.03 ppm)	Unclassified	Unclassified [c)]

a) CA State designations shown were updated by CARB in 2016, based on the 2013–2015 3-year period; stated designations are based on a 3-year data period after consideration of outliers and exceptional events; Source: http://www.arb.ca.gov/desig/statedesig.htm#current

b) CA State standards, or CAAQS, for ozone, CO, SO_2, NO_2, PM10 and PM2.5 are values not to be exceeded; lead, sulfates, and H_2S standards are values not to be equaled or exceeded; CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations

c) SCAQMD began monitoring H_2S in the southeastern Coachella Valley in November 2013 due to odor events related to the Salton Sea; three full years of data are not yet available for a State designation, but nonattainment is anticipated for the H_2S CAAQS in at least part of the Coachella Valley

The 1979 federal 1-hour ozone standard (0.12 ppm) was revoked by the U.S. EPA and replaced by the 8-hour average ozone standard (0.08 ppm), effective June 15, 2005. However, the Basin and the former Southeast Desert Modified Air Quality Management Area (which included the Coachella Valley) had not attained the 1-hour federal ozone NAAQS by the attainment dates in 2010 and 2007, respectively, and, therefore, had continuing obligations under the former standard. On August 25, 2014, U.S. EPA

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APPENDIX 3.1:

CALEEMOD CONSTRUCTION MASS GRADING AND PHASE 1 (UNMITIGATED) EMISSIONS MODEL OUTPUTS

Canterwood Mass Grading (Construction - Unmitigated)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.20	Acre	8.20	357,192.00	0
Single Family Housing	574.00	Dwelling Unit	149.98	5,650,456.00	1642

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Mass Grading (Construction - Unmitigated) - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Lot Acreage baesd on Site Plan. Square Feet based on largest floor plan of 9,844 SF.

Construction Phase - Construction Schedule to occur before Phase 1

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Grading -

Vehicle Trips - Operations Run Only.

Woodstoves - Operations Run Only.

Energy Use - Operations Run Only.

Water And Wastewater - Operations Run Only.

Solid Waste - Operations Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	310.00	155.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	487.90	0.00
tblFireplaces	NumberNoFireplace	57.40	0.00
tblFireplaces	NumberWood	28.70	0.00
tblLandUse	LandUseSquareFeet	1,033,200.00	5,650,456.00

Canterwood Mass Grading (Construction - Unmitigated) - Riverside-South Coast County, Winter

tblLandUse	LotAcreage	186.36	149.98
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.71	0.00
tblSolidWaste	SolidWasteGenerationRate	673.22	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	37,398,410.71	0.00
tblWater	OutdoorWaterUseRate	9,770,147.07	0.00
tblWater	OutdoorWaterUseRate	23,577,258.92	0.00
tblWoodstoves	NumberCatalytic	28.70	0.00
tblWoodstoves	NumberNoncatalytic	28.70	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	7.5453	89.0850	46.5382	0.0862	17.0176	3.6913	20.7089	7.1891	3.3960	10.5851	0.0000	8,678.9667	8,678.9667	2.6485	0.0000	8,745.1791
Maximum	**7.5453**	**89.0850**	**46.5382**	**0.0862**	**17.0176**	**3.6913**	**20.7089**	**7.1891**	**3.3960**	**10.5851**	**0.0000**	**8,678.9667**	**8,678.9667**	**2.6485**	**0.0000**	**8,745.1791**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	7.5453	89.0850	46.5382	0.0862	6.7596	3.6913	10.4509	2.8363	3.3960	6.2323	0.0000	8,678.9667	8,678.9667	2.6485	0.0000	8,745.1791
Maximum	**7.5453**	**89.0850**	**46.5382**	**0.0862**	**6.7596**	**3.6913**	**10.4509**	**2.8363**	**3.3960**	**6.2323**	**0.0000**	**8,678.9667**	**8,678.9667**	**2.6485**	**0.0000**	**8,745.1791**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**60.28**	**0.00**	**49.53**	**60.55**	**0.00**	**41.12**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	123.0221	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616	0.0000	85.2708	85.2708	0.0826	0.0000	87.3367
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**123.0221**	**0.5478**	**47.4595**	**2.5000e-003**	**0.0000**	**0.2616**	**0.2616**	**0.0000**	**0.2616**	**0.2616**	**0.0000**	**85.2708**	**85.2708**	**0.0826**	**0.0000**	**87.3367**

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	123.0221	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616	0.0000	85.2708	85.2708	0.0826	0.0000	87.3367
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**123.0221**	**0.5478**	**47.4595**	**2.5000e-003**	**0.0000**	**0.2616**	**0.2616**	**0.0000**	**0.2616**	**0.2616**	**0.0000**	**85.2708**	**85.2708**	**0.0826**	**0.0000**	**87.3367**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2018	11/2/2018	5	155	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 697.5

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Canterwood Mass Grading (Construction - Unmitigated) - Riverside-South Coast County, Winter

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
Grading	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					16.8164	0.0000	16.8164	7.1358	0.0000	7.1358			0.0000			0.0000
Off-Road	7.4396	89.0136	45.8146	0.0843		3.6900	3.6900		3.3948	3.3948		8,489.4775	8,489.4775	2.6429		8,555.5497
Total	**7.4396**	**89.0136**	**45.8146**	**0.0843**	**16.8164**	**3.6900**	**20.5064**	**7.1358**	**3.3948**	**10.5306**		**8,489.4775**	**8,489.4775**	**2.6429**		**8,555.5497**

3.2 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1057	0.0714	0.7236	1.9000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		189.4893	189.4893	5.6100e-003		189.6294
Total	**0.1057**	**0.0714**	**0.7236**	**1.9000e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**		**189.4893**	**189.4893**	**5.6100e-003**		**189.6294**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.5584	0.0000	6.5584	2.7829	0.0000	2.7829			0.0000			0.0000
Off-Road	7.4396	89.0136	45.8146	0.0843		3.6900	3.6900		3.3948	3.3948	0.0000	8,489.4774	8,489.4774	2.6429		8,555.5497
Total	**7.4396**	**89.0136**	**45.8146**	**0.0843**	**6.5584**	**3.6900**	**10.2484**	**2.7829**	**3.3948**	**6.1777**	**0.0000**	**8,489.4774**	**8,489.4774**	**2.6429**		**8,555.5497**

3.2 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1057	0.0714	0.7236	1.9000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		189.4893	189.4893	5.6100e-003		189.6294
Total	**0.1057**	**0.0714**	**0.7236**	**1.9000e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**		**189.4893**	**189.4893**	**5.6100e-003**		**189.6294**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	123.0221	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616	0.0000	85.2708	85.2708	0.0826	0.0000	87.3367
Unmitigated	123.0221	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616	0.0000	85.2708	85.2708	0.0826	0.0000	87.3367

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	9.6867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	111.8974					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	1.4380	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616		85.2708	85.2708	0.0826		87.3367
Total	**123.0221**	**0.5478**	**47.4595**	**2.5000e-003**		**0.2616**	**0.2616**		**0.2616**	**0.2616**	**0.0000**	**85.2708**	**85.2708**	**0.0826**	**0.0000**	**87.3367**

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	9.6867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	111.8974					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	1.4380	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616		85.2708	85.2708	0.0826		87.3367
Total	**123.0221**	**0.5478**	**47.4595**	**2.5000e-003**		**0.2616**	**0.2616**		**0.2616**	**0.2616**	**0.0000**	**85.2708**	**85.2708**	**0.0826**	**0.0000**	**87.3367**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Canterwood Mass Grading (Construction - Unmitigated)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.20	Acre	8.20	357,192.00	0
Single Family Housing	574.00	Dwelling Unit	149.98	5,650,456.00	1642

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Mass Grading (Construction - Unmitigated) - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Lot Acreage baesd on Site Plan. Square Feet based on largest floor plan of 9,844 SF.

Construction Phase - Construction Schedule to occur before Phase 1

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Grading -

Vehicle Trips - Operations Run Only.

Woodstoves - Operations Run Only.

Energy Use - Operations Run Only.

Water And Wastewater - Operations Run Only.

Solid Waste - Operations Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	310.00	155.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	487.90	0.00
tblFireplaces	NumberNoFireplace	57.40	0.00
tblFireplaces	NumberWood	28.70	0.00
tblLandUse	LandUseSquareFeet	1,033,200.00	5,650,456.00

Canterwood Mass Grading (Construction - Unmitigated) - Riverside-South Coast County, Summer

tblLandUse	LotAcreage	186.36	149.98
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.71	0.00
tblSolidWaste	SolidWasteGenerationRate	673.22	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	37,398,410.71	0.00
tblWater	OutdoorWaterUseRate	9,770,147.07	0.00
tblWater	OutdoorWaterUseRate	23,577,258.92	0.00
tblWoodstoves	NumberCatalytic	28.70	0.00
tblWoodstoves	NumberNoncatalytic	28.70	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	7.5479	89.0826	46.7048	0.0864	17.0176	3.6913	20.7089	7.1891	3.3960	10.5851	0.0000	8,700.6663	8,700.6663	2.6493	0.0000	8,766.8993
Maximum	**7.5479**	**89.0826**	**46.7048**	**0.0864**	**17.0176**	**3.6913**	**20.7089**	**7.1891**	**3.3960**	**10.5851**	**0.0000**	**8,700.6663**	**8,700.6663**	**2.6493**	**0.0000**	**8,766.8993**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	7.5479	89.0826	46.7048	0.0864	6.7596	3.6913	10.4509	2.8363	3.3960	6.2323	0.0000	8,700.6663	8,700.6663	2.6493	0.0000	8,766.8993
Maximum	**7.5479**	**89.0826**	**46.7048**	**0.0864**	**6.7596**	**3.6913**	**10.4509**	**2.8363**	**3.3960**	**6.2323**	**0.0000**	**8,700.6663**	**8,700.6663**	**2.6493**	**0.0000**	**8,766.8993**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**60.28**	**0.00**	**49.53**	**60.55**	**0.00**	**41.12**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	123.0221	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616	0.0000	85.2708	85.2708	0.0826	0.0000	87.3367
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**123.0221**	**0.5478**	**47.4595**	**2.5000e-003**	**0.0000**	**0.2616**	**0.2616**	**0.0000**	**0.2616**	**0.2616**	**0.0000**	**85.2708**	**85.2708**	**0.0826**	**0.0000**	**87.3367**

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	123.0221	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616	0.0000	85.2708	85.2708	0.0826	0.0000	87.3367
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**123.0221**	**0.5478**	**47.4595**	**2.5000e-003**	**0.0000**	**0.2616**	**0.2616**	**0.0000**	**0.2616**	**0.2616**	**0.0000**	**85.2708**	**85.2708**	**0.0826**	**0.0000**	**87.3367**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2018	11/2/2018	5	155	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 697.5

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Canterwood Mass Grading (Construction - Unmitigated) - Riverside-South Coast County, Summer

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
Grading	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					16.8164	0.0000	16.8164	7.1358	0.0000	7.1358			0.0000			0.0000
Off-Road	7.4396	89.0136	45.8146	0.0843		3.6900	3.6900		3.3948	3.3948		8,489.4775	8,489.4775	2.6429		8,555.5497
Total	**7.4396**	**89.0136**	**45.8146**	**0.0843**	**16.8164**	**3.6900**	**20.5064**	**7.1358**	**3.3948**	**10.5306**		**8,489.4775**	**8,489.4775**	**2.6429**		**8,555.5497**

3.2 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1084	0.0689	0.8902	2.1200e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		211.1889	211.1889	6.4300e-003		211.3496
Total	**0.1084**	**0.0689**	**0.8902**	**2.1200e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**		**211.1889**	**211.1889**	**6.4300e-003**		**211.3496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.5584	0.0000	6.5584	2.7829	0.0000	2.7829			0.0000			0.0000
Off-Road	7.4396	89.0136	45.8146	0.0843		3.6900	3.6900		3.3948	3.3948	0.0000	8,489.4774	8,489.4774	2.6429		8,555.5497
Total	**7.4396**	**89.0136**	**45.8146**	**0.0843**	**6.5584**	**3.6900**	**10.2484**	**2.7829**	**3.3948**	**6.1777**	**0.0000**	**8,489.4774**	**8,489.4774**	**2.6429**		**8,555.5497**

3.2 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1084	0.0689	0.8902	2.1200e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		211.1889	211.1889	6.4300e-003		211.3496
Total	**0.1084**	**0.0689**	**0.8902**	**2.1200e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**		**211.1889**	**211.1889**	**6.4300e-003**		**211.3496**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	123.0221	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616	0.0000	85.2708	85.2708	0.0826	0.0000	87.3367
Unmitigated	123.0221	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616	0.0000	85.2708	85.2708	0.0826	0.0000	87.3367

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	9.6867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	111.8974					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	1.4380	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616		85.2708	85.2708	0.0826		87.3367
Total	**123.0221**	**0.5478**	**47.4595**	**2.5000e-003**		**0.2616**	**0.2616**		**0.2616**	**0.2616**	**0.0000**	**85.2708**	**85.2708**	**0.0826**	**0.0000**	**87.3367**

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	9.6867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	111.8974					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	1.4380	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616		85.2708	85.2708	0.0826		87.3367
Total	**123.0221**	**0.5478**	**47.4595**	**2.5000e-003**		**0.2616**	**0.2616**		**0.2616**	**0.2616**	**0.0000**	**85.2708**	**85.2708**	**0.0826**	**0.0000**	**87.3367**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Canterwood Phase 1 (Construction - Unmitigated)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.20	Acre	8.20	357,192.00	0
Single Family Housing	317.00	Dwelling Unit	82.74	3,120,548.00	907

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Phase 1 (Construction - Unmitigated) - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Lot Acreage based on Site Plan. Square Foot based on largest floor plan of 9,844 SF.

Construction Phase - Building Construction adjusted to meet 2021 Phase 1 Operational Year

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

Off-road Equipment - Construction Equipment approved by the Project Applicant.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Vehicle Trips - Operations Run Only.

Woodstoves - Operations Run Only.

Energy Use - Operations Run Only.

Water And Wastewater - Operations Run Only.

Solid Waste - Operations Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,550.00	750.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	269.45	0.00
tblFireplaces	NumberNoFireplace	31.70	0.00

Canterwood Phase 1 (Construction - Unmitigated) - Riverside-South Coast County, Winter

tblFireplaces	NumberWood	15.85	0.00
tblLandUse	LandUseSquareFeet	570,600.00	3,120,548.00
tblLandUse	LotAcreage	102.92	82.74
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.71	0.00
tblSolidWaste	SolidWasteGenerationRate	371.87	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00

tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	9,770,147.07	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	15.85	0.00
tblWoodstoves	NumberNoncatalytic	15.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4616	15.2095	6.9142	0.0122	6.0780	0.7972	6.8752	3.3251	0.7334	4.0585	0.0000	1,225.5852	1,225.5852	0.3667	0.0000	1,234.7530
2019	6.7649	56.7847	48.4151	0.1080	6.0780	2.8592	6.8231	3.3251	2.6855	4.0106	0.0000	10,706.6201	10,706.6201	1.6807	0.0000	10,748.6376
2020	6.0963	51.5372	46.5743	0.1069	3.5400	2.4619	6.0019	0.9522	2.3122	3.2644	0.0000	10,518.7358	10,518.7358	1.6401	0.0000	10,559.7387
2021	184.8753	61.8209	64.1227	0.1391	4.3001	2.8920	7.1921	1.1538	2.7100	3.8638	0.0000	13,645.1587	13,645.1587	2.3635	0.0000	13,704.2456
Maximum	**184.8753**	**61.8209**	**64.1227**	**0.1391**	**6.0780**	**2.8920**	**7.1921**	**3.3251**	**2.7100**	**4.0585**	**0.0000**	**13,645.1587**	**13,645.1587**	**2.3635**	**0.0000**	**13,704.2456**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4616	15.2095	6.9142	0.0122	2.4045	0.7972	3.2017	1.3058	0.7334	2.0393	0.0000	1,225.5852	1,225.5852	0.3667	0.0000	1,234.7530
2019	6.7649	56.7847	48.4151	0.1080	3.5401	2.8592	6.3992	1.3058	2.6855	3.6377	0.0000	10,706.6201	10,706.6201	1.6807	0.0000	10,748.6376
2020	6.0963	51.5372	46.5743	0.1069	3.5400	2.4619	6.0019	0.9522	2.3122	3.2644	0.0000	10,518.7358	10,518.7358	1.6401	0.0000	10,559.7387
2021	184.8753	61.8209	64.1227	0.1391	4.3001	2.8920	7.1921	1.1538	2.7100	3.8638	0.0000	13,645.1587	13,645.1587	2.3635	0.0000	13,704.2456
Maximum	**184.8753**	**61.8209**	**64.1227**	**0.1391**	**4.3001**	**2.8920**	**7.1921**	**1.3058**	**2.7100**	**3.8638**	**0.0000**	**13,645.1587**	**13,645.1587**	**2.3635**	**0.0000**	**13,704.2456**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**31.06**	**0.00**	**15.24**	**46.12**	**0.00**	**15.74**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

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	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/3/2018	1/25/2019	5	60	
2	Building Construction	Building Construction	1/26/2019	12/10/2021	5	750	
3	Paving	Paving	7/31/2021	12/31/2021	5	110	
4	Architectural Coating	Architectural Coating	7/31/2021	12/31/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,319,110; Residential Outdoor: 2,106,370; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Canterwood Phase 1 (Construction - Unmitigated) - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	264.00	92.00	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	53.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331		1,172.9493	1,172.9493	0.3652		1,182.0782
Total	**1.4322**	**15.1897**	**6.7132**	**0.0116**	**6.0221**	**0.7969**	**6.8190**	**3.3102**	**0.7331**	**4.0434**		**1,172.9493**	**1,172.9493**	**0.3652**		**1,182.0782**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0294	0.0198	0.2010	5.3000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		52.6359	52.6359	1.5600e-003		52.6748
Total	**0.0294**	**0.0198**	**0.2010**	**5.3000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**52.6359**	**52.6359**	**1.5600e-003**		**52.6748**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331	0.0000	1,172.9493	1,172.9493	0.3652		1,182.0782
Total	**1.4322**	**15.1897**	**6.7132**	**0.0116**	**2.3486**	**0.7969**	**3.1455**	**1.2910**	**0.7331**	**2.0241**	**0.0000**	**1,172.9493**	**1,172.9493**	**0.3652**		**1,182.0782**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0294	0.0198	0.2010	5.3000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		52.6359	52.6359	1.5600e-003		52.6748
Total	**0.0294**	**0.0198**	**0.2010**	**5.3000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**52.6359**	**52.6359**	**1.5600e-003**		**52.6748**

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.3674	14.4118	6.5868	0.0116		0.7448	0.7448		0.6852	0.6852		1,152.9703	1,152.9703	0.3648		1,162.0900
Total	**1.3674**	**14.4118**	**6.5868**	**0.0116**	**6.0221**	**0.7448**	**6.7669**	**3.3102**	**0.6852**	**3.9954**		**1,152.9703**	**1,152.9703**	**0.3648**		**1,162.0900**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0269	0.0175	0.1800	5.1000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.2000e-004	0.0151		51.0259	51.0259	1.3800e-003		51.0605
Total	**0.0269**	**0.0175**	**0.1800**	**5.1000e-004**	**0.0559**	**3.4000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**51.0259**	**51.0259**	**1.3800e-003**		**51.0605**

3.2 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.3674	14.4118	6.5868	0.0116		0.7448	0.7448		0.6852	0.6852	0.0000	1,152.9703	1,152.9703	0.3648		1,162.0900
Total	**1.3674**	**14.4118**	**6.5868**	**0.0116**	**2.3486**	**0.7448**	**3.0934**	**1.2910**	**0.6852**	**1.9762**	**0.0000**	**1,152.9703**	**1,152.9703**	**0.3648**		**1,162.0900**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0269	0.0175	0.1800	5.1000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.2000e-004	0.0151		51.0259	51.0259	1.3800e-003		51.0605
Total	**0.0269**	**0.0175**	**0.1800**	**5.1000e-004**	**0.0559**	**3.4000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**51.0259**	**51.0259**	**1.3800e-003**		**51.0605**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0229	45.4124	36.6278	0.0576		2.7604	2.7604		2.5917	2.5917		5,556.6193	5,556.6193	1.3808		5,591.1400
Total	**5.0229**	**45.4124**	**36.6278**	**0.0576**		**2.7604**	**2.7604**		**2.5917**	**2.5917**		**5,556.6193**	**5,556.6193**	**1.3808**		**5,591.1400**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3217	10.4488	2.2818	0.0233	0.5892	0.0805	0.6697	0.1696	0.0771	0.2467		2,455.8355	2,455.8355	0.2268		2,461.5047
Worker	1.4203	0.9235	9.5055	0.0271	2.9509	0.0182	2.9691	0.7826	0.0168	0.7994		2,694.1653	2,694.1653	0.0731		2,695.9929
Total	**1.7419**	**11.3723**	**11.7873**	**0.0504**	**3.5401**	**0.0988**	**3.6388**	**0.9522**	**0.0938**	**1.0461**		**5,150.0007**	**5,150.0007**	**0.2999**		**5,157.4976**

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0229	45.4124	36.6278	0.0576		2.7604	2.7604		2.5917	2.5917	0.0000	5,556.6193	5,556.6193	1.3808		5,591.1400
Total	**5.0229**	**45.4124**	**36.6278**	**0.0576**		**2.7604**	**2.7604**		**2.5917**	**2.5917**	**0.0000**	**5,556.6193**	**5,556.6193**	**1.3808**		**5,591.1400**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3217	10.4488	2.2818	0.0233	0.5892	0.0805	0.6697	0.1696	0.0771	0.2467		2,455.8355	2,455.8355	0.2268		2,461.5047
Worker	1.4203	0.9235	9.5055	0.0271	2.9509	0.0182	2.9691	0.7826	0.0168	0.7994		2,694.1653	2,694.1653	0.0731		2,695.9929
Total	**1.7419**	**11.3723**	**11.7873**	**0.0504**	**3.5401**	**0.0988**	**3.6388**	**0.9522**	**0.0938**	**1.0461**		**5,150.0007**	**5,150.0007**	**0.2999**		**5,157.4976**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5102	41.2988	35.9356	0.0576		2.3895	2.3895		2.2436	2.2436		5,471.3999	5,471.3999	1.3639		5,505.4962
Total	**4.5102**	**41.2988**	**35.9356**	**0.0576**		**2.3895**	**2.3895**		**2.2436**	**2.2436**		**5,471.3999**	**5,471.3999**	**1.3639**		**5,505.4962**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2705	9.4165	2.0277	0.0231	0.5891	0.0545	0.6436	0.1696	0.0521	0.2217		2,438.3934	2,438.3934	0.2115		2,443.6800
Worker	1.3156	0.8219	8.6110	0.0262	2.9509	0.0179	2.9688	0.7826	0.0165	0.7991		2,608.9425	2,608.9425	0.0648		2,610.5625
Total	**1.5861**	**10.2384**	**10.6387**	**0.0493**	**3.5400**	**0.0724**	**3.6124**	**0.9522**	**0.0686**	**1.0208**		**5,047.3359**	**5,047.3359**	**0.2763**		**5,054.2425**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5102	41.2988	35.9356	0.0576		2.3895	2.3895		2.2436	2.2436	0.0000	5,471.3999	5,471.3999	1.3639		5,505.4962
Total	**4.5102**	**41.2988**	**35.9356**	**0.0576**		**2.3895**	**2.3895**		**2.2436**	**2.2436**	**0.0000**	**5,471.3999**	**5,471.3999**	**1.3639**		**5,505.4962**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2705	9.4165	2.0277	0.0231	0.5891	0.0545	0.6436	0.1696	0.0521	0.2217		2,438.3934	2,438.3934	0.2115		2,443.6800
Worker	1.3156	0.8219	8.6110	0.0262	2.9509	0.0179	2.9688	0.7826	0.0165	0.7991		2,608.9425	2,608.9425	0.0648		2,610.5625
Total	**1.5861**	**10.2384**	**10.6387**	**0.0493**	**3.5400**	**0.0724**	**3.6124**	**0.9522**	**0.0686**	**1.0208**		**5,047.3359**	**5,047.3359**	**0.2763**		**5,054.2425**

3.3 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	4.0455	37.4984	35.3413	0.0576		2.0503	2.0503		1.9250	1.9250		5,472.0876	5,472.0876	1.3502		5,505.8424
Total	**4.0455**	**37.4984**	**35.3413**	**0.0576**		**2.0503**	**2.0503**		**1.9250**	**1.9250**		**5,472.0876**	**5,472.0876**	**1.3502**		**5,505.8424**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2281	8.4403	1.7969	0.0229	0.5891	0.0167	0.6058	0.1696	0.0160	0.1856		2,419.3536	2,419.3536	0.2004		2,424.3634
Worker	1.2283	0.7374	7.8786	0.0253	2.9509	0.0174	2.9683	0.7826	0.0160	0.7986		2,521.7110	2,521.7110	0.0583		2,523.1678
Total	**1.4564**	**9.1777**	**9.6754**	**0.0482**	**3.5400**	**0.0341**	**3.5741**	**0.9522**	**0.0320**	**0.9842**		**4,941.0646**	**4,941.0646**	**0.2587**		**4,947.5312**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0455	37.4984	35.3413	0.0576		2.0503	2.0503		1.9250	1.9250	0.0000	5,472.0875	5,472.0875	1.3502		5,505.8424
Total	**4.0455**	**37.4984**	**35.3413**	**0.0576**		**2.0503**	**2.0503**		**1.9250**	**1.9250**	**0.0000**	**5,472.0875**	**5,472.0875**	**1.3502**		**5,505.8424**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2281	8.4403	1.7969	0.0229	0.5891	0.0167	0.6058	0.1696	0.0160	0.1856		2,419.3536	2,419.3536	0.2004		2,424.3634
Worker	1.2283	0.7374	7.8786	0.0253	2.9509	0.0174	2.9683	0.7826	0.0160	0.7986		2,521.7110	2,521.7110	0.0583		2,523.1678
Total	**1.4564**	**9.1777**	**9.6754**	**0.0482**	**3.5400**	**0.0341**	**3.5741**	**0.9522**	**0.0320**	**0.9842**		**4,941.0646**	**4,941.0646**	**0.2587**		**4,947.5312**

3.4 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
Total	**0.0698**	**0.0419**	**0.4476**	**1.4400e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**143.2790**	**143.2790**	**3.3100e-003**		**143.3618**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
Total	**0.0698**	**0.0419**	**0.4476**	**1.4400e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**143.2790**	**143.2790**	**3.3100e-003**		**143.3618**

3.5 Architectural Coating - 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					
Archit. Coating	177.5095					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**177.8014**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.2466	0.1480	1.5817	5.0800e-003	0.5924	3.4900e-003	0.5959	0.1571	3.2100e-003	0.1603		506.2526	506.2526	0.0117		506.5450
Total	**0.2466**	**0.1480**	**1.5817**	**5.0800e-003**	**0.5924**	**3.4900e-003**	**0.5959**	**0.1571**	**3.2100e-003**	**0.1603**		**506.2526**	**506.2526**	**0.0117**		**506.5450**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	177.5095					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**177.8014**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.2466	0.1480	1.5817	5.0800e-003	0.5924	3.4900e-003	0.5959	0.1571	3.2100e-003	0.1603		506.2526	506.2526	0.0117		506.5450
Total	**0.2466**	**0.1480**	**1.5817**	**5.0800e-003**	**0.5924**	**3.4900e-003**	**0.5959**	**0.1571**	**3.2100e-003**	**0.1603**		**506.2526**	**506.2526**	**0.0117**		**506.5450**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Unmitigated	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					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	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**		**0.1445**	**0.1445**		**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					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	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**		**0.1445**	**0.1445**		**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Canterwood Phase 1 (Construction - Unmitigated)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.20	Acre	8.20	357,192.00	0
Single Family Housing	317.00	Dwelling Unit	82.74	3,120,548.00	907

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Phase 1 (Construction - Unmitigated) - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Lot Acreage based on Site Plan. Square Foot based on largest floor plan of 9,844 SF.

Construction Phase - Building Construction adjusted to meet 2021 Phase 1 Operational Year

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

Off-road Equipment - Construction Equipment approved by the Project Applicant.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Vehicle Trips - Operations Run Only.

Woodstoves - Operations Run Only.

Energy Use - Operations Run Only.

Water And Wastewater - Operations Run Only.

Solid Waste - Operations Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,550.00	750.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	269.45	0.00
tblFireplaces	NumberNoFireplace	31.70	0.00

tblFireplaces	NumberWood	15.85	0.00
tblLandUse	LandUseSquareFeet	570,600.00	3,120,548.00
tblLandUse	LotAcreage	102.92	82.74
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.71	0.00
tblSolidWaste	SolidWasteGenerationRate	371.87	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00

tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	9,770,147.07	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	15.85	0.00
tblWoodstoves	NumberNoncatalytic	15.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4623	15.2088	6.9605	0.0122	6.0780	0.7972	6.8752	3.3251	0.7334	4.0585	0.0000	1,231.6129	1,231.6129	0.3670	0.0000	1,240.7864
2019	6.7830	56.7771	50.3187	0.1120	6.0780	2.8582	6.8231	3.3251	2.6846	4.0106	0.0000	11,110.8623	11,110.8623	1.6690	0.0000	11,152.5880
2020	6.1100	51.5594	48.3122	0.1108	3.5400	2.4612	6.0012	0.9522	2.3116	3.2638	0.0000	10,913.2060	10,913.2060	1.6284	0.0000	10,953.9166
2021	184.8913	61.8636	66.2113	0.1437	4.3001	2.8915	7.1916	1.1538	2.7096	3.8633	0.0000	14,103.4449	14,103.4449	2.3539	0.0000	14,162.2934
Maximum	**184.8913**	**61.8636**	**66.2113**	**0.1437**	**6.0780**	**2.8915**	**7.1916**	**3.3251**	**2.7096**	**4.0585**	**0.0000**	**14,103.4449**	**14,103.4449**	**2.3539**	**0.0000**	**14,162.2934**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4623	15.2088	6.9605	0.0122	2.4045	0.7972	3.2017	1.3058	0.7334	2.0393	0.0000	1,231.6129	1,231.6129	0.3670	0.0000	1,240.7864
2019	6.7830	56.7771	50.3187	0.1120	3.5401	2.8582	6.3982	1.3058	2.6846	3.6368	0.0000	11,110.8623	11,110.8623	1.6690	0.0000	11,152.5880
2020	6.1100	51.5594	48.3122	0.1108	3.5400	2.4612	6.0012	0.9522	2.3116	3.2638	0.0000	10,913.2060	10,913.2060	1.6284	0.0000	10,953.9166
2021	184.8913	61.8636	66.2113	0.1437	4.3001	2.8915	7.1916	1.1538	2.7096	3.8633	0.0000	14,103.4449	14,103.4449	2.3539	0.0000	14,162.2933
Maximum	**184.8913**	**61.8636**	**66.2113**	**0.1437**	**4.3001**	**2.8915**	**7.1916**	**1.3058**	**2.7096**	**3.8633**	**0.0000**	**14,103.4449**	**14,103.4449**	**2.3539**	**0.0000**	**14,162.2933**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**31.06**	**0.00**	**15.24**	**46.12**	**0.00**	**15.75**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

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	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/3/2018	1/25/2019	5	60	
2	Building Construction	Building Construction	1/26/2019	12/10/2021	5	750	
3	Paving	Paving	7/31/2021	12/31/2021	5	110	
4	Architectural Coating	Architectural Coating	7/31/2021	12/31/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,319,110; Residential Outdoor: 2,106,370; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Canterwood Phase 1 (Construction - Unmitigated) - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	264.00	92.00	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	53.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331		1,172.9493	1,172.9493	0.3652		1,182.0782
Total	**1.4322**	**15.1897**	**6.7132**	**0.0116**	**6.0221**	**0.7969**	**6.8190**	**3.3102**	**0.7331**	**4.0434**		**1,172.9493**	**1,172.9493**	**0.3652**		**1,182.0782**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0301	0.0191	0.2473	5.9000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		58.6636	58.6636	1.7900e-003		58.7082
Total	**0.0301**	**0.0191**	**0.2473**	**5.9000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**58.6636**	**58.6636**	**1.7900e-003**		**58.7082**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331	0.0000	1,172.9493	1,172.9493	0.3652		1,182.0782
Total	**1.4322**	**15.1897**	**6.7132**	**0.0116**	**2.3486**	**0.7969**	**3.1455**	**1.2910**	**0.7331**	**2.0241**	**0.0000**	**1,172.9493**	**1,172.9493**	**0.3652**		**1,182.0782**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0301	0.0191	0.2473	5.9000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		58.6636	58.6636	1.7900e-003		58.7082
Total	**0.0301**	**0.0191**	**0.2473**	**5.9000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**58.6636**	**58.6636**	**1.7900e-003**		**58.7082**

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.3674	14.4118	6.5868	0.0116		0.7448	0.7448		0.6852	0.6852		1,152.9703	1,152.9703	0.3648		1,162.0900
Total	**1.3674**	**14.4118**	**6.5868**	**0.0116**	**6.0221**	**0.7448**	**6.7669**	**3.3102**	**0.6852**	**3.9954**		**1,152.9703**	**1,152.9703**	**0.3648**		**1,162.0900**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0275	0.0169	0.2221	5.7000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.2000e-004	0.0151		56.8761	56.8761	1.5900e-003		56.9159
Total	**0.0275**	**0.0169**	**0.2221**	**5.7000e-004**	**0.0559**	**3.4000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**56.8761**	**56.8761**	**1.5900e-003**		**56.9159**

3.2 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.3674	14.4118	6.5868	0.0116		0.7448	0.7448		0.6852	0.6852	0.0000	1,152.9703	1,152.9703	0.3648		1,162.0900
Total	**1.3674**	**14.4118**	**6.5868**	**0.0116**	**2.3486**	**0.7448**	**3.0934**	**1.2910**	**0.6852**	**1.9762**	**0.0000**	**1,152.9703**	**1,152.9703**	**0.3648**		**1,162.0900**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0275	0.0169	0.2221	5.7000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.2000e-004	0.0151		56.8761	56.8761	1.5900e-003		56.9159
Total	**0.0275**	**0.0169**	**0.2221**	**5.7000e-004**	**0.0559**	**3.4000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**56.8761**	**56.8761**	**1.5900e-003**		**56.9159**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0229	45.4124	36.6278	0.0576		2.7604	2.7604		2.5917	2.5917		5,556.6193	5,556.6193	1.3808		5,591.1400
Total	**5.0229**	**45.4124**	**36.6278**	**0.0576**		**2.7604**	**2.7604**		**2.5917**	**2.5917**		**5,556.6193**	**5,556.6193**	**1.3808**		**5,591.1400**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3064	10.4727	1.9626	0.0242	0.5892	0.0796	0.6687	0.1696	0.0761	0.2457		2,551.1840	2,551.1840	0.2041		2,556.2873
Worker	1.4536	0.8921	11.7283	0.0302	2.9509	0.0182	2.9691	0.7826	0.0168	0.7994		3,003.0589	3,003.0589	0.0841		3,005.1608
Total	**1.7600**	**11.3647**	**13.6909**	**0.0544**	**3.5401**	**0.0978**	**3.6378**	**0.9522**	**0.0929**	**1.0451**		**5,554.2430**	**5,554.2430**	**0.2882**		**5,561.4480**

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0229	45.4124	36.6278	0.0576		2.7604	2.7604		2.5917	2.5917	0.0000	5,556.6193	5,556.6193	1.3808		5,591.1400
Total	**5.0229**	**45.4124**	**36.6278**	**0.0576**		**2.7604**	**2.7604**		**2.5917**	**2.5917**	**0.0000**	**5,556.6193**	**5,556.6193**	**1.3808**		**5,591.1400**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3064	10.4727	1.9626	0.0242	0.5892	0.0796	0.6687	0.1696	0.0761	0.2457		2,551.1840	2,551.1840	0.2041		2,556.2873
Worker	1.4536	0.8921	11.7283	0.0302	2.9509	0.0182	2.9691	0.7826	0.0168	0.7994		3,003.0589	3,003.0589	0.0841		3,005.1608
Total	**1.7600**	**11.3647**	**13.6909**	**0.0544**	**3.5401**	**0.0978**	**3.6378**	**0.9522**	**0.0929**	**1.0451**		**5,554.2430**	**5,554.2430**	**0.2882**		**5,561.4480**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5102	41.2988	35.9356	0.0576		2.3895	2.3895		2.2436	2.2436		5,471.3999	5,471.3999	1.3639		5,505.4962
Total	**4.5102**	**41.2988**	**35.9356**	**0.0576**		**2.3895**	**2.3895**		**2.2436**	**2.2436**		**5,471.3999**	**5,471.3999**	**1.3639**		**5,505.4962**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2564	9.4660	1.7318	0.0240	0.5891	0.0538	0.6430	0.1696	0.0515	0.2211		2,533.5965	2,533.5965	0.1900		2,538.3473
Worker	1.3434	0.7945	10.6449	0.0292	2.9509	0.0179	2.9688	0.7826	0.0165	0.7991		2,908.2096	2,908.2096	0.0745		2,910.0732
Total	**1.5999**	**10.2606**	**12.3766**	**0.0532**	**3.5400**	**0.0717**	**3.6117**	**0.9522**	**0.0680**	**1.0202**		**5,441.8061**	**5,441.8061**	**0.2646**		**5,448.4205**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5102	41.2988	35.9356	0.0576		2.3895	2.3895		2.2436	2.2436	0.0000	5,471.3999	5,471.3999	1.3639		5,505.4962
Total	**4.5102**	**41.2988**	**35.9356**	**0.0576**		**2.3895**	**2.3895**		**2.2436**	**2.2436**	**0.0000**	**5,471.3999**	**5,471.3999**	**1.3639**		**5,505.4962**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2564	9.4660	1.7318	0.0240	0.5891	0.0538	0.6430	0.1696	0.0515	0.2211		2,533.5965	2,533.5965	0.1900		2,538.3473
Worker	1.3434	0.7945	10.6449	0.0292	2.9509	0.0179	2.9688	0.7826	0.0165	0.7991		2,908.2096	2,908.2096	0.0745		2,910.0732
Total	**1.5999**	**10.2606**	**12.3766**	**0.0532**	**3.5400**	**0.0717**	**3.6117**	**0.9522**	**0.0680**	**1.0202**		**5,441.8061**	**5,441.8061**	**0.2646**		**5,448.4205**

3.3 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	4.0455	37.4984	35.3413	0.0576		2.0503	2.0503		1.9250	1.9250		5,472.0876	5,472.0876	1.3502		5,505.8424
Total	**4.0455**	**37.4984**	**35.3413**	**0.0576**		**2.0503**	**2.0503**		**1.9250**	**1.9250**		**5,472.0876**	**5,472.0876**	**1.3502**		**5,505.8424**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2148	8.5136	1.5190	0.0238	0.5891	0.0162	0.6053	0.1696	0.0155	0.1851		2,513.9094	2,513.9094	0.1799		2,518.4056
Worker	1.2516	0.7130	9.7604	0.0282	2.9509	0.0174	2.9683	0.7826	0.0160	0.7986		2,810.9424	2,810.9424	0.0670		2,812.6180
Total	**1.4664**	**9.2266**	**11.2794**	**0.0521**	**3.5400**	**0.0336**	**3.5736**	**0.9522**	**0.0315**	**0.9837**		**5,324.8518**	**5,324.8518**	**0.2469**		**5,331.0236**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0455	37.4984	35.3413	0.0576		2.0503	2.0503		1.9250	1.9250	0.0000	5,472.0875	5,472.0875	1.3502		5,505.8424
Total	**4.0455**	**37.4984**	**35.3413**	**0.0576**		**2.0503**	**2.0503**		**1.9250**	**1.9250**	**0.0000**	**5,472.0875**	**5,472.0875**	**1.3502**		**5,505.8424**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2148	8.5136	1.5190	0.0238	0.5891	0.0162	0.6053	0.1696	0.0155	0.1851		2,513.9094	2,513.9094	0.1799		2,518.4056
Worker	1.2516	0.7130	9.7604	0.0282	2.9509	0.0174	2.9683	0.7826	0.0160	0.7986		2,810.9424	2,810.9424	0.0670		2,812.6180
Total	**1.4664**	**9.2266**	**11.2794**	**0.0521**	**3.5400**	**0.0336**	**3.5736**	**0.9522**	**0.0315**	**0.9837**		**5,324.8518**	**5,324.8518**	**0.2469**		**5,331.0236**

3.4 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
Total	**0.0711**	**0.0405**	**0.5546**	**1.6000e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**159.7126**	**159.7126**	**3.8100e-003**		**159.8078**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
Total	**0.0711**	**0.0405**	**0.5546**	**1.6000e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**159.7126**	**159.7126**	**3.8100e-003**		**159.8078**

3.5 Architectural Coating - 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					
Archit. Coating	177.5095					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**177.8014**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.2513	0.1432	1.9595	5.6600e-003	0.5924	3.4900e-003	0.5959	0.1571	3.2100e-003	0.1603		564.3180	564.3180	0.0135		564.6544
Total	**0.2513**	**0.1432**	**1.9595**	**5.6600e-003**	**0.5924**	**3.4900e-003**	**0.5959**	**0.1571**	**3.2100e-003**	**0.1603**		**564.3180**	**564.3180**	**0.0135**		**564.6544**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	177.5095					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**177.8014**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.2513	0.1432	1.9595	5.6600e-003	0.5924	3.4900e-003	0.5959	0.1571	3.2100e-003	0.1603		564.3180	564.3180	0.0135		564.6544
Total	**0.2513**	**0.1432**	**1.9595**	**5.6600e-003**	**0.5924**	**3.4900e-003**	**0.5959**	**0.1571**	**3.2100e-003**	**0.1603**		**564.3180**	**564.3180**	**0.0135**		**564.6544**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Unmitigated	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					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	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**		**0.1445**	**0.1445**		**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					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	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**		**0.1445**	**0.1445**		**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.2:

CALEEMOD CONSTRUCTION PHASE 2 (UNMITIGATED) EMISSIONS MODEL OUTPUTS

Canterwood Phase 2 (Construction - Unmitigated)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	257.00	Dwelling Unit	67.08	2,529,908.00	735

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Phase 2 (Construction - Unmitigated) - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Lot Acreage based on Site Plan. Square Foot based on largest floor plan of 9,844 SF.

Construction Phase - Building Construction adjusted to reflect Phase 2 Site Preparation activities to overlap with Phase 1 Buidling Construction activities.

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

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Vehicle Trips - Construction Run Only.

Woodstoves - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	600.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	218.45	0.00
tblFireplaces	NumberNoFireplace	25.70	0.00

Canterwood Phase 2 (Construction - Unmitigated) - Riverside-South Coast County, Winter

tblFireplaces	NumberWood	12.85	0.00
tblLandUse	LandUseSquareFeet	462,600.00	2,529,908.00
tblLandUse	LotAcreage	83.44	67.08
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	301.35	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	16,744,584.58	0.00

tblWater	OutdoorWaterUseRate	10,556,368.54	0.00
tblWoodstoves	NumberCatalytic	12.85	0.00
tblWoodstoves	NumberNoncatalytic	12.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2569	12.8811	6.4472	0.0121	6.0780	0.6446	6.7225	3.3251	0.5930	3.9181	0.0000	1,176.0120	1,176.0120	0.3660	0.0000	1,185.1620
2022	4.0977	36.1015	37.9267	0.0729	6.0780	1.7391	6.5858	3.3251	1.6339	3.7922	0.0000	7,034.0474	7,034.0474	1.4164	0.0000	7,069.4564
2023	3.7765	32.8346	37.3977	0.0724	1.2124	1.5038	2.7162	0.3255	1.4129	1.7384	0.0000	6,985.2774	6,985.2774	1.3931	0.0000	7,020.1057
2024	211.3850	30.7799	37.0662	0.0721	1.2124	1.3205	2.5329	0.3255	1.2403	1.5657	0.0000	6,954.4444	6,954.4444	1.3838	0.0000	6,989.0395
Maximum	**211.3850**	**36.1015**	**37.9267**	**0.0729**	**6.0780**	**1.7391**	**6.7225**	**3.3251**	**1.6339**	**3.9181**	**0.0000**	**7,034.0474**	**7,034.0474**	**1.4164**	**0.0000**	**7,069.4564**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2569	12.8811	6.4472	0.0121	2.4045	0.6446	3.0491	1.3058	0.5930	1.8988	0.0000	1,176.0120	1,176.0120	0.3660	0.0000	1,185.1620
2022	4.0977	36.1015	37.9267	0.0729	2.4045	1.7391	2.9515	1.3058	1.6339	1.9594	0.0000	7,034.0474	7,034.0474	1.4164	0.0000	7,069.4564
2023	3.7765	32.8346	37.3977	0.0724	1.2124	1.5038	2.7162	0.3255	1.4129	1.7384	0.0000	6,985.2774	6,985.2774	1.3931	0.0000	7,020.1057
2024	211.3850	30.7799	37.0662	0.0721	1.2124	1.3205	2.5329	0.3255	1.2403	1.5657	0.0000	6,954.4444	6,954.4444	1.3838	0.0000	6,989.0395
Maximum	**211.3850**	**36.1015**	**37.9267**	**0.0729**	**2.4045**	**1.7391**	**3.0491**	**1.3058**	**1.6339**	**1.9594**	**0.0000**	**7,034.0474**	**7,034.0474**	**1.4164**	**0.0000**	**7,069.4564**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.39**	**0.00**	**39.38**	**55.31**	**0.00**	**34.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2021	1/27/2022	5	40	
2	Building Construction	Building Construction	1/28/2022	5/16/2024	5	600	
3	Paving	Paving	5/17/2024	8/29/2024	5	75	
4	Architectural Coating	Architectural Coating	8/30/2024	12/12/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 5,123,064; Residential Outdoor: 1,707,688; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Canterwood Phase 2 (Construction - Unmitigated) - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	93.00	27.00	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	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
Total	**1.2336**	**12.8671**	**6.2980**	**0.0116**	**6.0221**	**0.6442**	**6.6663**	**3.3102**	**0.5927**	**3.9029**		**1,128.2523**	**1,128.2523**	**0.3649**		**1,137.3748**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0233	0.0140	0.1492	4.8000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.0000e-004	0.0151		47.7597	47.7597	1.1000e-003		47.7873
Total	**0.0233**	**0.0140**	**0.1492**	**4.8000e-004**	**0.0559**	**3.3000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**47.7597**	**47.7597**	**1.1000e-003**		**47.7873**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748
Total	**1.2336**	**12.8671**	**6.2980**	**0.0116**	**2.3486**	**0.6442**	**2.9928**	**1.2910**	**0.5927**	**1.8837**	**0.0000**	**1,128.2523**	**1,128.2523**	**0.3649**		**1,137.3748**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0233	0.0140	0.1492	4.8000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.0000e-004	0.0151		47.7597	47.7597	1.1000e-003		47.7873
Total	**0.0233**	**0.0140**	**0.1492**	**4.8000e-004**	**0.0559**	**3.3000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**47.7597**	**47.7597**	**1.1000e-003**		**47.7873**

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669		1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**6.0221**	**0.5075**	**6.5296**	**3.3102**	**0.4669**	**3.7771**		**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0218	0.0126	0.1374	4.6000e-004	0.0559	3.2000e-004	0.0562	0.0148	3.0000e-004	0.0151		46.0169	46.0169	9.9000e-004		46.0418
Total	**0.0218**	**0.0126**	**0.1374**	**4.6000e-004**	**0.0559**	**3.2000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**46.0169**	**46.0169**	**9.9000e-004**		**46.0418**

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669	0.0000	1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**2.3486**	**0.5075**	**2.8561**	**1.2910**	**0.4669**	**1.7579**	**0.0000**	**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0218	0.0126	0.1374	4.6000e-004	0.0559	3.2000e-004	0.0562	0.0148	3.0000e-004	0.0151		46.0169	46.0169	9.9000e-004		46.0418
Total	**0.0218**	**0.0126**	**0.1374**	**4.6000e-004**	**0.0559**	**3.2000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**46.0169**	**46.0169**	**9.9000e-004**		**46.0418**

3.3 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	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245		5,474.3040	5,474.3040	1.3421		5,507.8576
Total	**3.6293**	**33.5341**	**34.8784**	**0.0576**		**1.7291**	**1.7291**		**1.6245**	**1.6245**		**5,474.3040**	**5,474.3040**	**1.3421**		**5,507.8576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0625	2.3337	0.4923	6.6700e-003	0.1729	4.1200e-003	0.1770	0.0498	3.9400e-003	0.0537		703.8283	703.8283	0.0558		705.2222
Worker	0.4059	0.2337	2.5561	8.5800e-003	1.0395	5.9600e-003	1.0455	0.2757	5.4900e-003	0.2812		855.9152	855.9152	0.0185		856.3766
Total	**0.4684**	**2.5674**	**3.0483**	**0.0153**	**1.2124**	**0.0101**	**1.2225**	**0.3255**	**9.4300e-003**	**0.3349**		**1,559.7434**	**1,559.7434**	**0.0742**		**1,561.5988**

3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245	0.0000	5,474.3040	5,474.3040	1.3421		5,507.8576
Total	**3.6293**	**33.5341**	**34.8784**	**0.0576**		**1.7291**	**1.7291**		**1.6245**	**1.6245**	**0.0000**	**5,474.3040**	**5,474.3040**	**1.3421**		**5,507.8576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0625	2.3337	0.4923	6.6700e-003	0.1729	4.1200e-003	0.1770	0.0498	3.9400e-003	0.0537		703.8283	703.8283	0.0558		705.2222
Worker	0.4059	0.2337	2.5561	8.5800e-003	1.0395	5.9600e-003	1.0455	0.2757	5.4900e-003	0.2812		855.9152	855.9152	0.0185		856.3766
Total	**0.4684**	**2.5674**	**3.0483**	**0.0153**	**1.2124**	**0.0101**	**1.2225**	**0.3255**	**9.4300e-003**	**0.3349**		**1,559.7434**	**1,559.7434**	**0.0742**		**1,561.5988**

3.3 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	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	**3.3469**	**30.8754**	**34.6201**	**0.0577**		**1.4962**	**1.4962**		**1.4058**	**1.4058**		**5,476.3070**	**5,476.3070**	**1.3340**		**5,509.6577**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0478	1.7485	0.4221	6.5000e-003	0.1729	1.8400e-003	0.1747	0.0498	1.7600e-003	0.0515		685.5371	685.5371	0.0425		686.6001
Worker	0.3818	0.2106	2.3555	8.2600e-003	1.0395	5.8200e-003	1.0453	0.2757	5.3600e-003	0.2811		823.4332	823.4332	0.0166		823.8480
Total	**0.4296**	**1.9591**	**2.7776**	**0.0148**	**1.2124**	**7.6600e-003**	**1.2201**	**0.3255**	**7.1200e-003**	**0.3326**		**1,508.9703**	**1,508.9703**	**0.0591**		**1,510.4481**

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	**3.3469**	**30.8754**	**34.6201**	**0.0577**		**1.4962**	**1.4962**		**1.4058**	**1.4058**	**0.0000**	**5,476.3070**	**5,476.3070**	**1.3340**		**5,509.6577**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0478	1.7485	0.4221	6.5000e-003	0.1729	1.8400e-003	0.1747	0.0498	1.7600e-003	0.0515		685.5371	685.5371	0.0425		686.6001
Worker	0.3818	0.2106	2.3555	8.2600e-003	1.0395	5.8200e-003	1.0453	0.2757	5.3600e-003	0.2811		823.4332	823.4332	0.0166		823.8480
Total	**0.4296**	**1.9591**	**2.7776**	**0.0148**	**1.2124**	**7.6600e-003**	**1.2201**	**0.3255**	**7.1200e-003**	**0.3326**		**1,508.9703**	**1,508.9703**	**0.0591**		**1,510.4481**

3.3 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	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017
Total	**3.1340**	**28.8498**	**34.4540**	**0.0577**		**1.3129**	**1.3129**		**1.2332**	**1.2332**		**5,477.4247**	**5,477.4247**	**1.3271**		**5,510.6017**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0468	1.7392	0.4085	6.4700e-003	0.1729	1.8300e-003	0.1747	0.0498	1.7500e-003	0.0515		683.1035	683.1035	0.0416		684.1432
Worker	0.3609	0.1909	2.2037	7.9600e-003	1.0395	5.7600e-003	1.0453	0.2757	5.3000e-003	0.2810		793.9162	793.9162	0.0151		794.2946
Total	**0.4078**	**1.9301**	**2.6122**	**0.0144**	**1.2124**	**7.5900e-003**	**1.2200**	**0.3255**	**7.0500e-003**	**0.3325**		**1,477.0197**	**1,477.0197**	**0.0567**		**1,478.4378**

3.3 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	**3.1340**	**28.8498**	**34.4540**	**0.0577**		**1.3129**	**1.3129**		**1.2332**	**1.2332**	**0.0000**	**5,477.4247**	**5,477.4247**	**1.3271**		**5,510.6017**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0468	1.7392	0.4085	6.4700e-003	0.1729	1.8300e-003	0.1747	0.0498	1.7500e-003	0.0515		683.1035	683.1035	0.0416		684.1432
Worker	0.3609	0.1909	2.2037	7.9600e-003	1.0395	5.7600e-003	1.0453	0.2757	5.3000e-003	0.2810		793.9162	793.9162	0.0151		794.2946
Total	**0.4078**	**1.9301**	**2.6122**	**0.0144**	**1.2124**	**7.5900e-003**	**1.2200**	**0.3255**	**7.0500e-003**	**0.3325**		**1,477.0197**	**1,477.0197**	**0.0567**		**1,478.4378**

3.4 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0308	0.3554	1.2800e-003	0.1677	9.3000e-004	0.1686	0.0445	8.6000e-004	0.0453		128.0510	128.0510	2.4400e-003		128.1120
Total	**0.0582**	**0.0308**	**0.3554**	**1.2800e-003**	**0.1677**	**9.3000e-004**	**0.1686**	**0.0445**	**8.6000e-004**	**0.0453**		**128.0510**	**128.0510**	**2.4400e-003**		**128.1120**

3.4 Paving - 2024

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0308	0.3554	1.2800e-003	0.1677	9.3000e-004	0.1686	0.0445	8.6000e-004	0.0453		128.0510	128.0510	2.4400e-003		128.1120
Total	**0.0582**	**0.0308**	**0.3554**	**1.2800e-003**	**0.1677**	**9.3000e-004**	**0.1686**	**0.0445**	**8.6000e-004**	**0.0453**		**128.0510**	**128.0510**	**2.4400e-003**		**128.1120**

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	211.0702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	**211.3113**	**1.6251**	**2.4135**	**3.9600e-003**		**0.0812**	**0.0812**		**0.0812**	**0.0812**		**375.2641**	**375.2641**	**0.0211**		**375.7923**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0737	0.0390	0.4502	1.6300e-003	0.2124	1.1800e-003	0.2136	0.0563	1.0800e-003	0.0574		162.1979	162.1979	3.0900e-003		162.2752
Total	**0.0737**	**0.0390**	**0.4502**	**1.6300e-003**	**0.2124**	**1.1800e-003**	**0.2136**	**0.0563**	**1.0800e-003**	**0.0574**		**162.1979**	**162.1979**	**3.0900e-003**		**162.2752**

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	211.0702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	**211.3113**	**1.6251**	**2.4135**	**3.9600e-003**		**0.0812**	**0.0812**		**0.0812**	**0.0812**	**0.0000**	**375.2641**	**375.2641**	**0.0211**		**375.7923**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0737	0.0390	0.4502	1.6300e-003	0.2124	1.1800e-003	0.2136	0.0563	1.0800e-003	0.0574		162.1979	162.1979	3.0900e-003		162.2752
Total	**0.0737**	**0.0390**	**0.4502**	**1.6300e-003**	**0.2124**	**1.1800e-003**	**0.2136**	**0.0563**	**1.0800e-003**	**0.0574**		**162.1979**	**162.1979**	**3.0900e-003**		**162.2752**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Unmitigated	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919

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	4.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	50.0922					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	0.6360	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175		38.1779	38.1779	0.0366		39.0919
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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	4.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	50.0922					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	0.6360	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175		38.1779	38.1779	0.0366		39.0919
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Canterwood Phase 2 (Construction - Unmitigated)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	257.00	Dwelling Unit	67.08	2,529,908.00	735

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Phase 2 (Construction - Unmitigated) - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Lot Acreage based on Site Plan. Square Foot based on largest floor plan of 9,844 SF.

Construction Phase - Building Construction adjusted to reflect Phase 2 Site Preparation activities to overlap with Phase 1 Buidling Construction activities.

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

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Vehicle Trips - Construction Run Only.

Woodstoves - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	600.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	218.45	0.00
tblFireplaces	NumberNoFireplace	25.70	0.00

Canterwood Phase 2 (Construction - Unmitigated) - Riverside-South Coast County, Summer

tblFireplaces	NumberWood	12.85	0.00
tblLandUse	LandUseSquareFeet	462,600.00	2,529,908.00
tblLandUse	LotAcreage	83.44	67.08
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	301.35	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	16,744,584.58	0.00

tblWater	OutdoorWaterUseRate	10,556,368.54	0.00
tblWoodstoves	NumberCatalytic	12.85	0.00
tblWoodstoves	NumberNoncatalytic	12.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2573	12.8806	6.4829	0.0122	6.0780	0.6446	6.7225	3.3251	0.5930	3.9181	0.0000	1,181.4898	1,181.4898	0.3662	0.0000	1,190.6440
2022	4.1005	36.1175	38.4644	0.0741	6.0780	1.7390	6.5858	3.3251	1.6338	3.7922	0.0000	7,159.8388	7,159.8388	1.4133	0.0000	7,195.1723
2023	3.7787	32.8519	37.9124	0.0736	1.2124	1.5038	2.7162	0.3255	1.4129	1.7383	0.0000	7,106.1307	7,106.1307	1.3914	0.0000	7,140.9162
2024	211.3857	30.7977	37.5514	0.0733	1.2124	1.3205	2.5329	0.3255	1.2402	1.5657	0.0000	7,071.6991	7,071.6991	1.3820	0.0000	7,106.2482
Maximum	**211.3857**	**36.1175**	**38.4644**	**0.0741**	**6.0780**	**1.7390**	**6.7225**	**3.3251**	**1.6338**	**3.9181**	**0.0000**	**7,159.8388**	**7,159.8388**	**1.4133**	**0.0000**	**7,195.1723**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2573	12.8806	6.4829	0.0122	2.4045	0.6446	3.0491	1.3058	0.5930	1.8988	0.0000	1,181.4898	1,181.4898	0.3662	0.0000	1,190.6440
2022	4.1005	36.1175	38.4644	0.0741	2.4045	1.7390	2.9514	1.3058	1.6338	1.9592	0.0000	7,159.8388	7,159.8388	1.4133	0.0000	7,195.1723
2023	3.7787	32.8519	37.9124	0.0736	1.2124	1.5038	2.7162	0.3255	1.4129	1.7383	0.0000	7,106.1307	7,106.1307	1.3914	0.0000	7,140.9162
2024	211.3857	30.7977	37.5514	0.0733	1.2124	1.3205	2.5329	0.3255	1.2402	1.5657	0.0000	7,071.6991	7,071.6991	1.3820	0.0000	7,106.2482
Maximum	**211.3857**	**36.1175**	**38.4644**	**0.0741**	**2.4045**	**1.7390**	**3.0491**	**1.3058**	**1.6338**	**1.9592**	**0.0000**	**7,159.8388**	**7,159.8388**	**1.4133**	**0.0000**	**7,195.1723**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.39**	**0.00**	**39.38**	**55.31**	**0.00**	**34.98**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2021	1/27/2022	5	40	
2	Building Construction	Building Construction	1/28/2022	5/16/2024	5	600	
3	Paving	Paving	5/17/2024	8/29/2024	5	75	
4	Architectural Coating	Architectural Coating	8/30/2024	12/12/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 5,123,064; Residential Outdoor: 1,707,688; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Canterwood Phase 2 (Construction - Unmitigated) - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	93.00	27.00	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	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
Total	**1.2336**	**12.8671**	**6.2980**	**0.0116**	**6.0221**	**0.6442**	**6.6663**	**3.3102**	**0.5927**	**3.9029**		**1,128.2523**	**1,128.2523**	**0.3649**		**1,137.3748**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0237	0.0135	0.1849	5.3000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.0000e-004	0.0151		53.2376	53.2376	1.2700e-003		53.2693
Total	**0.0237**	**0.0135**	**0.1849**	**5.3000e-004**	**0.0559**	**3.3000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**53.2376**	**53.2376**	**1.2700e-003**		**53.2693**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748
Total	**1.2336**	**12.8671**	**6.2980**	**0.0116**	**2.3486**	**0.6442**	**2.9928**	**1.2910**	**0.5927**	**1.8837**	**0.0000**	**1,128.2523**	**1,128.2523**	**0.3649**		**1,137.3748**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0237	0.0135	0.1849	5.3000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.0000e-004	0.0151		53.2376	53.2376	1.2700e-003		53.2693
Total	**0.0237**	**0.0135**	**0.1849**	**5.3000e-004**	**0.0559**	**3.3000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**53.2376**	**53.2376**	**1.2700e-003**		**53.2693**

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669		1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**6.0221**	**0.5075**	**6.5296**	**3.3102**	**0.4669**	**3.7771**		**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0222	0.0122	0.1705	5.1000e-004	0.0559	3.2000e-004	0.0562	0.0148	3.0000e-004	0.0151		51.2923	51.2923	1.1400e-003		51.3208
Total	**0.0222**	**0.0122**	**0.1705**	**5.1000e-004**	**0.0559**	**3.2000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**51.2923**	**51.2923**	**1.1400e-003**		**51.3208**

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669	0.0000	1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**2.3486**	**0.5075**	**2.8561**	**1.2910**	**0.4669**	**1.7579**	**0.0000**	**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0222	0.0122	0.1705	5.1000e-004	0.0559	3.2000e-004	0.0562	0.0148	3.0000e-004	0.0151		51.2923	51.2923	1.1400e-003		51.3208
Total	**0.0222**	**0.0122**	**0.1705**	**5.1000e-004**	**0.0559**	**3.2000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**51.2923**	**51.2923**	**1.1400e-003**		**51.3208**

3.3 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	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245		5,474.3040	5,474.3040	1.3421		5,507.8576
Total	**3.6293**	**33.5341**	**34.8784**	**0.0576**		**1.7291**	**1.7291**		**1.6245**	**1.6245**		**5,474.3040**	**5,474.3040**	**1.3421**		**5,507.8576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0588	2.3573	0.4146	6.9300e-003	0.1729	4.0000e-003	0.1769	0.0498	3.8200e-003	0.0536		731.4980	731.4980	0.0500		732.7477
Worker	0.4124	0.2261	3.1714	9.5700e-003	1.0395	5.9600e-003	1.0455	0.2757	5.4900e-003	0.2812		954.0368	954.0368	0.0212		954.5670
Total	**0.4712**	**2.5834**	**3.5860**	**0.0165**	**1.2124**	**9.9600e-003**	**1.2224**	**0.3255**	**9.3100e-003**	**0.3348**		**1,685.5348**	**1,685.5348**	**0.0712**		**1,687.3147**

3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245	0.0000	5,474.3040	5,474.3040	1.3421		5,507.8576
Total	**3.6293**	**33.5341**	**34.8784**	**0.0576**		**1.7291**	**1.7291**		**1.6245**	**1.6245**	**0.0000**	**5,474.3040**	**5,474.3040**	**1.3421**		**5,507.8576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0588	2.3573	0.4146	6.9300e-003	0.1729	4.0000e-003	0.1769	0.0498	3.8200e-003	0.0536		731.4980	731.4980	0.0500		732.7477
Worker	0.4124	0.2261	3.1714	9.5700e-003	1.0395	5.9600e-003	1.0455	0.2757	5.4900e-003	0.2812		954.0368	954.0368	0.0212		954.5670
Total	**0.4712**	**2.5834**	**3.5860**	**0.0165**	**1.2124**	**9.9600e-003**	**1.2224**	**0.3255**	**9.3100e-003**	**0.3348**		**1,685.5348**	**1,685.5348**	**0.0712**		**1,687.3147**

3.3 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	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	**3.3469**	**30.8754**	**34.6201**	**0.0577**		**1.4962**	**1.4962**		**1.4058**	**1.4058**		**5,476.3070**	**5,476.3070**	**1.3340**		**5,509.6577**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0451	1.7726	0.3655	6.7500e-003	0.1729	1.7800e-003	0.1747	0.0498	1.7000e-003	0.0515		712.0428	712.0428	0.0384		713.0017
Worker	0.3867	0.2039	2.9268	9.2100e-003	1.0395	5.8200e-003	1.0453	0.2757	5.3600e-003	0.2811		917.7809	917.7809	0.0190		918.2568
Total	**0.4318**	**1.9765**	**3.2923**	**0.0160**	**1.2124**	**7.6000e-003**	**1.2200**	**0.3255**	**7.0600e-003**	**0.3325**		**1,629.8237**	**1,629.8237**	**0.0574**		**1,631.2585**

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	**3.3469**	**30.8754**	**34.6201**	**0.0577**		**1.4962**	**1.4962**		**1.4058**	**1.4058**	**0.0000**	**5,476.3070**	**5,476.3070**	**1.3340**		**5,509.6577**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0451	1.7726	0.3655	6.7500e-003	0.1729	1.7800e-003	0.1747	0.0498	1.7000e-003	0.0515		712.0428	712.0428	0.0384		713.0017
Worker	0.3867	0.2039	2.9268	9.2100e-003	1.0395	5.8200e-003	1.0453	0.2757	5.3600e-003	0.2811		917.7809	917.7809	0.0190		918.2568
Total	**0.4318**	**1.9765**	**3.2923**	**0.0160**	**1.2124**	**7.6000e-003**	**1.2200**	**0.3255**	**7.0600e-003**	**0.3325**		**1,629.8237**	**1,629.8237**	**0.0574**		**1,631.2585**

3.3 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	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017
Total	**3.1340**	**28.8498**	**34.4540**	**0.0577**		**1.3129**	**1.3129**		**1.2332**	**1.2332**		**5,477.4247**	**5,477.4247**	**1.3271**		**5,510.6017**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0442	1.7630	0.3530	6.7200e-003	0.1729	1.7700e-003	0.1747	0.0498	1.7000e-003	0.0515		709.2572	709.2572	0.0375		710.1953
Worker	0.3644	0.1849	2.7443	8.8800e-003	1.0395	5.7600e-003	1.0453	0.2757	5.3000e-003	0.2810		885.0173	885.0173	0.0174		885.4512
Total	**0.4086**	**1.9478**	**3.0974**	**0.0156**	**1.2124**	**7.5300e-003**	**1.2199**	**0.3255**	**7.0000e-003**	**0.3325**		**1,594.2744**	**1,594.2744**	**0.0549**		**1,595.6465**

3.3 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	**3.1340**	**28.8498**	**34.4540**	**0.0577**		**1.3129**	**1.3129**		**1.2332**	**1.2332**	**0.0000**	**5,477.4247**	**5,477.4247**	**1.3271**		**5,510.6017**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0442	1.7630	0.3530	6.7200e-003	0.1729	1.7700e-003	0.1747	0.0498	1.7000e-003	0.0515		709.2572	709.2572	0.0375		710.1953
Worker	0.3644	0.1849	2.7443	8.8800e-003	1.0395	5.7600e-003	1.0453	0.2757	5.3000e-003	0.2810		885.0173	885.0173	0.0174		885.4512
Total	**0.4086**	**1.9478**	**3.0974**	**0.0156**	**1.2124**	**7.5300e-003**	**1.2199**	**0.3255**	**7.0000e-003**	**0.3325**		**1,594.2744**	**1,594.2744**	**0.0549**		**1,595.6465**

3.4 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0588	0.0298	0.4426	1.4300e-003	0.1677	9.3000e-004	0.1686	0.0445	8.6000e-004	0.0453		142.7447	142.7447	2.8000e-003		142.8147
Total	**0.0588**	**0.0298**	**0.4426**	**1.4300e-003**	**0.1677**	**9.3000e-004**	**0.1686**	**0.0445**	**8.6000e-004**	**0.0453**		**142.7447**	**142.7447**	**2.8000e-003**		**142.8147**

3.4 Paving - 2024

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0588	0.0298	0.4426	1.4300e-003	0.1677	9.3000e-004	0.1686	0.0445	8.6000e-004	0.0453		142.7447	142.7447	2.8000e-003		142.8147
Total	**0.0588**	**0.0298**	**0.4426**	**1.4300e-003**	**0.1677**	**9.3000e-004**	**0.1686**	**0.0445**	**8.6000e-004**	**0.0453**		**142.7447**	**142.7447**	**2.8000e-003**		**142.8147**

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	211.0702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	**211.3113**	**1.6251**	**2.4135**	**3.9600e-003**		**0.0812**	**0.0812**		**0.0812**	**0.0812**		**375.2641**	**375.2641**	**0.0211**		**375.7923**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0745	0.0378	0.5607	1.8100e-003	0.2124	1.1800e-003	0.2136	0.0563	1.0800e-003	0.0574		180.8100	180.8100	3.5500e-003		180.8986
Total	**0.0745**	**0.0378**	**0.5607**	**1.8100e-003**	**0.2124**	**1.1800e-003**	**0.2136**	**0.0563**	**1.0800e-003**	**0.0574**		**180.8100**	**180.8100**	**3.5500e-003**		**180.8986**

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	211.0702					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	**211.3113**	**1.6251**	**2.4135**	**3.9600e-003**		**0.0812**	**0.0812**		**0.0812**	**0.0812**	**0.0000**	**375.2641**	**375.2641**	**0.0211**		**375.7923**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0745	0.0378	0.5607	1.8100e-003	0.2124	1.1800e-003	0.2136	0.0563	1.0800e-003	0.0574		180.8100	180.8100	3.5500e-003		180.8986
Total	**0.0745**	**0.0378**	**0.5607**	**1.8100e-003**	**0.2124**	**1.1800e-003**	**0.2136**	**0.0563**	**1.0800e-003**	**0.0574**		**180.8100**	**180.8100**	**3.5500e-003**		**180.8986**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Unmitigated	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919

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	4.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	50.0922					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	0.6360	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175		38.1779	38.1779	0.0366		39.0919
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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	4.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	50.0922					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	0.6360	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175		38.1779	38.1779	0.0366		39.0919
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.3:

CALEEMOD CONSTRUCTION PHASE 1 (MITIGATED) EMISSIONS MODEL OUTPUTS

Canterwood Phase 1 (Construction - Mitigated)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.20	Acre	8.20	357,192.00	0
Single Family Housing	317.00	Dwelling Unit	82.74	3,120,548.00	907

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Phase 1 (Construction - Mitigated) - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Lot Acreage based on Site Plan. Square Foot based on largest floor plan of 9,844 SF.

Construction Phase - Building Construction adjusted to meet 2021 Phase 1 Operational Year

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

Off-road Equipment - Construction Equipment approved by the Project Applicant.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Vehicle Trips - Operations Run Only.

Woodstoves - Operations Run Only.

Energy Use - Operations Run Only.

Water And Wastewater - Operations Run Only.

Solid Waste - Operations Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Architectural Coating - Use Super Low VOC Paint

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblConstructionPhase	NumDays	1,550.00	750.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Canterwood Phase 1 (Construction - Mitigated) - Riverside-South Coast County, Winter

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	269.45	0.00
tblFireplaces	NumberNoFireplace	31.70	0.00
tblFireplaces	NumberWood	15.85	0.00
tblLandUse	LandUseSquareFeet	570,600.00	3,120,548.00
tblLandUse	LotAcreage	102.92	82.74
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.71	0.00
tblSolidWaste	SolidWasteGenerationRate	371.87	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00

tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	9,770,147.07	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	15.85	0.00
tblWoodstoves	NumberNoncatalytic	15.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4616	15.2095	6.9142	0.0122	6.0780	0.7972	6.8752	3.3251	0.7334	4.0585	0.0000	1,225.5852	1,225.5852	0.3667	0.0000	1,234.7530
2019	6.7649	56.7847	48.4151	0.1080	6.0780	2.8592	6.8231	3.3251	2.6855	4.0106	0.0000	10,706.6201	10,706.6201	1.6807	0.0000	10,748.6376
2020	6.0963	51.5372	46.5743	0.1069	3.5400	2.4619	6.0019	0.9522	2.3122	3.2644	0.0000	10,518.7358	10,518.7358	1.6401	0.0000	10,559.7387
2021	42.8676	61.8209	64.1227	0.1391	4.3001	2.8920	7.1921	1.1538	2.7100	3.8638	0.0000	13,645.1587	13,645.1587	2.3635	0.0000	13,704.2456
Maximum	**42.8676**	**61.8209**	**64.1227**	**0.1391**	**6.0780**	**2.8920**	**7.1921**	**3.3251**	**2.7100**	**4.0585**	**0.0000**	**13,645.1587**	**13,645.1587**	**2.3635**	**0.0000**	**13,704.2456**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4616	15.2095	6.9142	0.0122	2.4045	0.7972	3.2017	1.3058	0.7334	2.0393	0.0000	1,225.5852	1,225.5852	0.3667	0.0000	1,234.7530
2019	6.7649	56.7847	48.4151	0.1080	3.5401	2.8592	6.3992	1.3058	2.6855	3.6377	0.0000	10,706.6201	10,706.6201	1.6807	0.0000	10,748.6376
2020	6.0963	51.5372	46.5743	0.1069	3.5400	2.4619	6.0019	0.9522	2.3122	3.2644	0.0000	10,518.7358	10,518.7358	1.6401	0.0000	10,559.7387
2021	42.8676	61.8209	64.1227	0.1391	4.3001	2.8920	7.1921	1.1538	2.7100	3.8638	0.0000	13,645.1587	13,645.1587	2.3635	0.0000	13,704.2456
Maximum	**42.8676**	**61.8209**	**64.1227**	**0.1391**	**4.3001**	**2.8920**	**7.1921**	**1.3058**	**2.7100**	**3.8638**	**0.0000**	**13,645.1587**	**13,645.1587**	**2.3635**	**0.0000**	**13,704.2456**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**31.06**	**0.00**	**15.24**	**46.12**	**0.00**	**15.74**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

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	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/3/2018	1/25/2019	5	60	
2	Building Construction	Building Construction	1/26/2019	12/10/2021	5	750	
3	Paving	Paving	7/31/2021	12/31/2021	5	110	
4	Architectural Coating	Architectural Coating	7/31/2021	12/31/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,319,110; Residential Outdoor: 2,106,370; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	264.00	92.00	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	53.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331		1,172.9493	1,172.9493	0.3652		1,182.0782
Total	**1.4322**	**15.1897**	**6.7132**	**0.0116**	**6.0221**	**0.7969**	**6.8190**	**3.3102**	**0.7331**	**4.0434**		**1,172.9493**	**1,172.9493**	**0.3652**		**1,182.0782**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0294	0.0198	0.2010	5.3000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		52.6359	52.6359	1.5600e-003		52.6748
Total	**0.0294**	**0.0198**	**0.2010**	**5.3000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**52.6359**	**52.6359**	**1.5600e-003**		**52.6748**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331	0.0000	1,172.9493	1,172.9493	0.3652		1,182.0782
Total	**1.4322**	**15.1897**	**6.7132**	**0.0116**	**2.3486**	**0.7969**	**3.1455**	**1.2910**	**0.7331**	**2.0241**	**0.0000**	**1,172.9493**	**1,172.9493**	**0.3652**		**1,182.0782**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0294	0.0198	0.2010	5.3000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		52.6359	52.6359	1.5600e-003		52.6748
Total	**0.0294**	**0.0198**	**0.2010**	**5.3000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**52.6359**	**52.6359**	**1.5600e-003**		**52.6748**

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.3674	14.4118	6.5868	0.0116		0.7448	0.7448		0.6852	0.6852		1,152.9703	1,152.9703	0.3648		1,162.0900
Total	**1.3674**	**14.4118**	**6.5868**	**0.0116**	**6.0221**	**0.7448**	**6.7669**	**3.3102**	**0.6852**	**3.9954**		**1,152.9703**	**1,152.9703**	**0.3648**		**1,162.0900**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0269	0.0175	0.1800	5.1000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.2000e-004	0.0151		51.0259	51.0259	1.3800e-003		51.0605
Total	**0.0269**	**0.0175**	**0.1800**	**5.1000e-004**	**0.0559**	**3.4000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**51.0259**	**51.0259**	**1.3800e-003**		**51.0605**

3.2 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.3674	14.4118	6.5868	0.0116		0.7448	0.7448		0.6852	0.6852	0.0000	1,152.9703	1,152.9703	0.3648		1,162.0900
Total	**1.3674**	**14.4118**	**6.5868**	**0.0116**	**2.3486**	**0.7448**	**3.0934**	**1.2910**	**0.6852**	**1.9762**	**0.0000**	**1,152.9703**	**1,152.9703**	**0.3648**		**1,162.0900**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0269	0.0175	0.1800	5.1000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.2000e-004	0.0151		51.0259	51.0259	1.3800e-003		51.0605
Total	**0.0269**	**0.0175**	**0.1800**	**5.1000e-004**	**0.0559**	**3.4000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**51.0259**	**51.0259**	**1.3800e-003**		**51.0605**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0229	45.4124	36.6278	0.0576		2.7604	2.7604		2.5917	2.5917		5,556.6193	5,556.6193	1.3808		5,591.1400
Total	**5.0229**	**45.4124**	**36.6278**	**0.0576**		**2.7604**	**2.7604**		**2.5917**	**2.5917**		**5,556.6193**	**5,556.6193**	**1.3808**		**5,591.1400**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3217	10.4488	2.2818	0.0233	0.5892	0.0805	0.6697	0.1696	0.0771	0.2467		2,455.8355	2,455.8355	0.2268		2,461.5047
Worker	1.4203	0.9235	9.5055	0.0271	2.9509	0.0182	2.9691	0.7826	0.0168	0.7994		2,694.1653	2,694.1653	0.0731		2,695.9929
Total	**1.7419**	**11.3723**	**11.7873**	**0.0504**	**3.5401**	**0.0988**	**3.6388**	**0.9522**	**0.0938**	**1.0461**		**5,150.0007**	**5,150.0007**	**0.2999**		**5,157.4976**

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0229	45.4124	36.6278	0.0576		2.7604	2.7604		2.5917	2.5917	0.0000	5,556.6193	5,556.6193	1.3808		5,591.1400
Total	**5.0229**	**45.4124**	**36.6278**	**0.0576**		**2.7604**	**2.7604**		**2.5917**	**2.5917**	**0.0000**	**5,556.6193**	**5,556.6193**	**1.3808**		**5,591.1400**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3217	10.4488	2.2818	0.0233	0.5892	0.0805	0.6697	0.1696	0.0771	0.2467		2,455.8355	2,455.8355	0.2268		2,461.5047
Worker	1.4203	0.9235	9.5055	0.0271	2.9509	0.0182	2.9691	0.7826	0.0168	0.7994		2,694.1653	2,694.1653	0.0731		2,695.9929
Total	**1.7419**	**11.3723**	**11.7873**	**0.0504**	**3.5401**	**0.0988**	**3.6388**	**0.9522**	**0.0938**	**1.0461**		**5,150.0007**	**5,150.0007**	**0.2999**		**5,157.4976**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5102	41.2988	35.9356	0.0576		2.3895	2.3895		2.2436	2.2436		5,471.3999	5,471.3999	1.3639		5,505.4962
Total	**4.5102**	**41.2988**	**35.9356**	**0.0576**		**2.3895**	**2.3895**		**2.2436**	**2.2436**		**5,471.3999**	**5,471.3999**	**1.3639**		**5,505.4962**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2705	9.4165	2.0277	0.0231	0.5891	0.0545	0.6436	0.1696	0.0521	0.2217		2,438.3934	2,438.3934	0.2115		2,443.6800
Worker	1.3156	0.8219	8.6110	0.0262	2.9509	0.0179	2.9688	0.7826	0.0165	0.7991		2,608.9425	2,608.9425	0.0648		2,610.5625
Total	**1.5861**	**10.2384**	**10.6387**	**0.0493**	**3.5400**	**0.0724**	**3.6124**	**0.9522**	**0.0686**	**1.0208**		**5,047.3359**	**5,047.3359**	**0.2763**		**5,054.2425**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5102	41.2988	35.9356	0.0576		2.3895	2.3895		2.2436	2.2436	0.0000	5,471.3999	5,471.3999	1.3639		5,505.4962
Total	**4.5102**	**41.2988**	**35.9356**	**0.0576**		**2.3895**	**2.3895**		**2.2436**	**2.2436**	**0.0000**	**5,471.3999**	**5,471.3999**	**1.3639**		**5,505.4962**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2705	9.4165	2.0277	0.0231	0.5891	0.0545	0.6436	0.1696	0.0521	0.2217		2,438.3934	2,438.3934	0.2115		2,443.6800
Worker	1.3156	0.8219	8.6110	0.0262	2.9509	0.0179	2.9688	0.7826	0.0165	0.7991		2,608.9425	2,608.9425	0.0648		2,610.5625
Total	**1.5861**	**10.2384**	**10.6387**	**0.0493**	**3.5400**	**0.0724**	**3.6124**	**0.9522**	**0.0686**	**1.0208**		**5,047.3359**	**5,047.3359**	**0.2763**		**5,054.2425**

3.3 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	4.0455	37.4984	35.3413	0.0576		2.0503	2.0503		1.9250	1.9250		5,472.0876	5,472.0876	1.3502		5,505.8424
Total	**4.0455**	**37.4984**	**35.3413**	**0.0576**		**2.0503**	**2.0503**		**1.9250**	**1.9250**		**5,472.0876**	**5,472.0876**	**1.3502**		**5,505.8424**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2281	8.4403	1.7969	0.0229	0.5891	0.0167	0.6058	0.1696	0.0160	0.1856		2,419.3536	2,419.3536	0.2004		2,424.3634
Worker	1.2283	0.7374	7.8786	0.0253	2.9509	0.0174	2.9683	0.7826	0.0160	0.7986		2,521.7110	2,521.7110	0.0583		2,523.1678
Total	**1.4564**	**9.1777**	**9.6754**	**0.0482**	**3.5400**	**0.0341**	**3.5741**	**0.9522**	**0.0320**	**0.9842**		**4,941.0646**	**4,941.0646**	**0.2587**		**4,947.5312**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0455	37.4984	35.3413	0.0576		2.0503	2.0503		1.9250	1.9250	0.0000	5,472.0875	5,472.0875	1.3502		5,505.8424
Total	**4.0455**	**37.4984**	**35.3413**	**0.0576**		**2.0503**	**2.0503**		**1.9250**	**1.9250**	**0.0000**	**5,472.0875**	**5,472.0875**	**1.3502**		**5,505.8424**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2281	8.4403	1.7969	0.0229	0.5891	0.0167	0.6058	0.1696	0.0160	0.1856		2,419.3536	2,419.3536	0.2004		2,424.3634
Worker	1.2283	0.7374	7.8786	0.0253	2.9509	0.0174	2.9683	0.7826	0.0160	0.7986		2,521.7110	2,521.7110	0.0583		2,523.1678
Total	**1.4564**	**9.1777**	**9.6754**	**0.0482**	**3.5400**	**0.0341**	**3.5741**	**0.9522**	**0.0320**	**0.9842**		**4,941.0646**	**4,941.0646**	**0.2587**		**4,947.5312**

3.4 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
Total	**0.0698**	**0.0419**	**0.4476**	**1.4400e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**143.2790**	**143.2790**	**3.3100e-003**		**143.3618**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
Total	**0.0698**	**0.0419**	**0.4476**	**1.4400e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**143.2790**	**143.2790**	**3.3100e-003**		**143.3618**

3.5 Architectural Coating - 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					
Archit. Coating	35.5019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**35.7938**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.2466	0.1480	1.5817	5.0800e-003	0.5924	3.4900e-003	0.5959	0.1571	3.2100e-003	0.1603		506.2526	506.2526	0.0117		506.5450
Total	**0.2466**	**0.1480**	**1.5817**	**5.0800e-003**	**0.5924**	**3.4900e-003**	**0.5959**	**0.1571**	**3.2100e-003**	**0.1603**		**506.2526**	**506.2526**	**0.0117**		**506.5450**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.5019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**35.7938**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.2466	0.1480	1.5817	5.0800e-003	0.5924	3.4900e-003	0.5959	0.1571	3.2100e-003	0.1603		506.2526	506.2526	0.0117		506.5450
Total	**0.2466**	**0.1480**	**1.5817**	**5.0800e-003**	**0.5924**	**3.4900e-003**	**0.5959**	**0.1571**	**3.2100e-003**	**0.1603**		**506.2526**	**506.2526**	**0.0117**		**506.5450**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Unmitigated	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					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	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**		**0.1445**	**0.1445**		**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					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	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**		**0.1445**	**0.1445**		**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Canterwood Phase 1 (Construction - Mitigated)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.20	Acre	8.20	357,192.00	0
Single Family Housing	317.00	Dwelling Unit	82.74	3,120,548.00	907

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Phase 1 (Construction - Mitigated) - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Lot Acreage based on Site Plan. Square Foot based on largest floor plan of 9,844 SF.

Construction Phase - Building Construction adjusted to meet 2021 Phase 1 Operational Year

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

Off-road Equipment - Construction Equipment approved by the Project Applicant.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Vehicle Trips - Operations Run Only.

Woodstoves - Operations Run Only.

Energy Use - Operations Run Only.

Water And Wastewater - Operations Run Only.

Solid Waste - Operations Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Architectural Coating - Use Super Low VOC Paint

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblConstructionPhase	NumDays	1,550.00	750.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Canterwood Phase 1 (Construction - Mitigated) - Riverside-South Coast County, Summer

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	269.45	0.00
tblFireplaces	NumberNoFireplace	31.70	0.00
tblFireplaces	NumberWood	15.85	0.00
tblLandUse	LandUseSquareFeet	570,600.00	3,120,548.00
tblLandUse	LotAcreage	102.92	82.74
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.71	0.00
tblSolidWaste	SolidWasteGenerationRate	371.87	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00

tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	20,653,826.12	0.00
tblWater	OutdoorWaterUseRate	9,770,147.07	0.00
tblWater	OutdoorWaterUseRate	13,020,890.38	0.00
tblWoodstoves	NumberCatalytic	15.85	0.00
tblWoodstoves	NumberNoncatalytic	15.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4623	15.2088	6.9605	0.0122	6.0780	0.7972	6.8752	3.3251	0.7334	4.0585	0.0000	1,231.6129	1,231.6129	0.3670	0.0000	1,240.7864
2019	6.7830	56.7771	50.3187	0.1120	6.0780	2.8582	6.8231	3.3251	2.6846	4.0106	0.0000	11,110.8623	11,110.8623	1.6690	0.0000	11,152.5880
2020	6.1100	51.5594	48.3122	0.1108	3.5400	2.4612	6.0012	0.9522	2.3116	3.2638	0.0000	10,913.2060	10,913.2060	1.6284	0.0000	10,953.9166
2021	42.8836	61.8636	66.2113	0.1437	4.3001	2.8915	7.1916	1.1538	2.7096	3.8633	0.0000	14,103.4449	14,103.4449	2.3539	0.0000	14,162.2934
Maximum	**42.8836**	**61.8636**	**66.2113**	**0.1437**	**6.0780**	**2.8915**	**7.1916**	**3.3251**	**2.7096**	**4.0585**	**0.0000**	**14,103.4449**	**14,103.4449**	**2.3539**	**0.0000**	**14,162.2934**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	1.4623	15.2088	6.9605	0.0122	2.4045	0.7972	3.2017	1.3058	0.7334	2.0393	0.0000	1,231.6129	1,231.6129	0.3670	0.0000	1,240.7864
2019	6.7830	56.7771	50.3187	0.1120	3.5401	2.8582	6.3982	1.3058	2.6846	3.6368	0.0000	11,110.8623	11,110.8623	1.6690	0.0000	11,152.5880
2020	6.1100	51.5594	48.3122	0.1108	3.5400	2.4612	6.0012	0.9522	2.3116	3.2638	0.0000	10,913.2060	10,913.2060	1.6284	0.0000	10,953.9166
2021	42.8836	61.8636	66.2113	0.1437	4.3001	2.8915	7.1916	1.1538	2.7096	3.8633	0.0000	14,103.4449	14,103.4449	2.3539	0.0000	14,162.2933
Maximum	**42.8836**	**61.8636**	**66.2113**	**0.1437**	**4.3001**	**2.8915**	**7.1916**	**1.3058**	**2.7096**	**3.8633**	**0.0000**	**14,103.4449**	**14,103.4449**	**2.3539**	**0.0000**	**14,162.2933**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**31.06**	**0.00**	**15.24**	**46.12**	**0.00**	**15.75**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

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	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	11/3/2018	1/25/2019	5	60	
2	Building Construction	Building Construction	1/26/2019	12/10/2021	5	750	
3	Paving	Paving	7/31/2021	12/31/2021	5	110	
4	Architectural Coating	Architectural Coating	7/31/2021	12/31/2021	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,319,110; Residential Outdoor: 2,106,370; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	264.00	92.00	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	53.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331		1,172.9493	1,172.9493	0.3652		1,182.0782
Total	**1.4322**	**15.1897**	**6.7132**	**0.0116**	**6.0221**	**0.7969**	**6.8190**	**3.3102**	**0.7331**	**4.0434**		**1,172.9493**	**1,172.9493**	**0.3652**		**1,182.0782**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0301	0.0191	0.2473	5.9000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		58.6636	58.6636	1.7900e-003		58.7082
Total	**0.0301**	**0.0191**	**0.2473**	**5.9000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**58.6636**	**58.6636**	**1.7900e-003**		**58.7082**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.4322	15.1897	6.7132	0.0116		0.7969	0.7969		0.7331	0.7331	0.0000	1,172.9493	1,172.9493	0.3652		1,182.0782
Total	**1.4322**	**15.1897**	**6.7132**	**0.0116**	**2.3486**	**0.7969**	**3.1455**	**1.2910**	**0.7331**	**2.0241**	**0.0000**	**1,172.9493**	**1,172.9493**	**0.3652**		**1,182.0782**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0301	0.0191	0.2473	5.9000e-004	0.0559	3.5000e-004	0.0562	0.0148	3.2000e-004	0.0151		58.6636	58.6636	1.7900e-003		58.7082
Total	**0.0301**	**0.0191**	**0.2473**	**5.9000e-004**	**0.0559**	**3.5000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**58.6636**	**58.6636**	**1.7900e-003**		**58.7082**

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.3674	14.4118	6.5868	0.0116		0.7448	0.7448		0.6852	0.6852		1,152.9703	1,152.9703	0.3648		1,162.0900
Total	**1.3674**	**14.4118**	**6.5868**	**0.0116**	**6.0221**	**0.7448**	**6.7669**	**3.3102**	**0.6852**	**3.9954**		**1,152.9703**	**1,152.9703**	**0.3648**		**1,162.0900**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0275	0.0169	0.2221	5.7000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.2000e-004	0.0151		56.8761	56.8761	1.5900e-003		56.9159
Total	**0.0275**	**0.0169**	**0.2221**	**5.7000e-004**	**0.0559**	**3.4000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**56.8761**	**56.8761**	**1.5900e-003**		**56.9159**

3.2 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.3674	14.4118	6.5868	0.0116		0.7448	0.7448		0.6852	0.6852	0.0000	1,152.9703	1,152.9703	0.3648		1,162.0900
Total	**1.3674**	**14.4118**	**6.5868**	**0.0116**	**2.3486**	**0.7448**	**3.0934**	**1.2910**	**0.6852**	**1.9762**	**0.0000**	**1,152.9703**	**1,152.9703**	**0.3648**		**1,162.0900**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0275	0.0169	0.2221	5.7000e-004	0.0559	3.4000e-004	0.0562	0.0148	3.2000e-004	0.0151		56.8761	56.8761	1.5900e-003		56.9159
Total	**0.0275**	**0.0169**	**0.2221**	**5.7000e-004**	**0.0559**	**3.4000e-004**	**0.0562**	**0.0148**	**3.2000e-004**	**0.0151**		**56.8761**	**56.8761**	**1.5900e-003**		**56.9159**

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0229	45.4124	36.6278	0.0576		2.7604	2.7604		2.5917	2.5917		5,556.6193	5,556.6193	1.3808		5,591.1400
Total	**5.0229**	**45.4124**	**36.6278**	**0.0576**		**2.7604**	**2.7604**		**2.5917**	**2.5917**		**5,556.6193**	**5,556.6193**	**1.3808**		**5,591.1400**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3064	10.4727	1.9626	0.0242	0.5892	0.0796	0.6687	0.1696	0.0761	0.2457		2,551.1840	2,551.1840	0.2041		2,556.2873
Worker	1.4536	0.8921	11.7283	0.0302	2.9509	0.0182	2.9691	0.7826	0.0168	0.7994		3,003.0589	3,003.0589	0.0841		3,005.1608
Total	**1.7600**	**11.3647**	**13.6909**	**0.0544**	**3.5401**	**0.0978**	**3.6378**	**0.9522**	**0.0929**	**1.0451**		**5,554.2430**	**5,554.2430**	**0.2882**		**5,561.4480**

3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0229	45.4124	36.6278	0.0576		2.7604	2.7604		2.5917	2.5917	0.0000	5,556.6193	5,556.6193	1.3808		5,591.1400
Total	**5.0229**	**45.4124**	**36.6278**	**0.0576**		**2.7604**	**2.7604**		**2.5917**	**2.5917**	**0.0000**	**5,556.6193**	**5,556.6193**	**1.3808**		**5,591.1400**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3064	10.4727	1.9626	0.0242	0.5892	0.0796	0.6687	0.1696	0.0761	0.2457		2,551.1840	2,551.1840	0.2041		2,556.2873
Worker	1.4536	0.8921	11.7283	0.0302	2.9509	0.0182	2.9691	0.7826	0.0168	0.7994		3,003.0589	3,003.0589	0.0841		3,005.1608
Total	**1.7600**	**11.3647**	**13.6909**	**0.0544**	**3.5401**	**0.0978**	**3.6378**	**0.9522**	**0.0929**	**1.0451**		**5,554.2430**	**5,554.2430**	**0.2882**		**5,561.4480**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5102	41.2988	35.9356	0.0576		2.3895	2.3895		2.2436	2.2436		5,471.3999	5,471.3999	1.3639		5,505.4962
Total	**4.5102**	**41.2988**	**35.9356**	**0.0576**		**2.3895**	**2.3895**		**2.2436**	**2.2436**		**5,471.3999**	**5,471.3999**	**1.3639**		**5,505.4962**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2564	9.4660	1.7318	0.0240	0.5891	0.0538	0.6430	0.1696	0.0515	0.2211		2,533.5965	2,533.5965	0.1900		2,538.3473
Worker	1.3434	0.7945	10.6449	0.0292	2.9509	0.0179	2.9688	0.7826	0.0165	0.7991		2,908.2096	2,908.2096	0.0745		2,910.0732
Total	**1.5999**	**10.2606**	**12.3766**	**0.0532**	**3.5400**	**0.0717**	**3.6117**	**0.9522**	**0.0680**	**1.0202**		**5,441.8061**	**5,441.8061**	**0.2646**		**5,448.4205**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5102	41.2988	35.9356	0.0576		2.3895	2.3895		2.2436	2.2436	0.0000	5,471.3999	5,471.3999	1.3639		5,505.4962
Total	**4.5102**	**41.2988**	**35.9356**	**0.0576**		**2.3895**	**2.3895**		**2.2436**	**2.2436**	**0.0000**	**5,471.3999**	**5,471.3999**	**1.3639**		**5,505.4962**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2564	9.4660	1.7318	0.0240	0.5891	0.0538	0.6430	0.1696	0.0515	0.2211		2,533.5965	2,533.5965	0.1900		2,538.3473
Worker	1.3434	0.7945	10.6449	0.0292	2.9509	0.0179	2.9688	0.7826	0.0165	0.7991		2,908.2096	2,908.2096	0.0745		2,910.0732
Total	**1.5999**	**10.2606**	**12.3766**	**0.0532**	**3.5400**	**0.0717**	**3.6117**	**0.9522**	**0.0680**	**1.0202**		**5,441.8061**	**5,441.8061**	**0.2646**		**5,448.4205**

3.3 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	4.0455	37.4984	35.3413	0.0576		2.0503	2.0503		1.9250	1.9250		5,472.0876	5,472.0876	1.3502		5,505.8424
Total	**4.0455**	**37.4984**	**35.3413**	**0.0576**		**2.0503**	**2.0503**		**1.9250**	**1.9250**		**5,472.0876**	**5,472.0876**	**1.3502**		**5,505.8424**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2148	8.5136	1.5190	0.0238	0.5891	0.0162	0.6053	0.1696	0.0155	0.1851		2,513.9094	2,513.9094	0.1799		2,518.4056
Worker	1.2516	0.7130	9.7604	0.0282	2.9509	0.0174	2.9683	0.7826	0.0160	0.7986		2,810.9424	2,810.9424	0.0670		2,812.6180
Total	**1.4664**	**9.2266**	**11.2794**	**0.0521**	**3.5400**	**0.0336**	**3.5736**	**0.9522**	**0.0315**	**0.9837**		**5,324.8518**	**5,324.8518**	**0.2469**		**5,331.0236**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0455	37.4984	35.3413	0.0576		2.0503	2.0503		1.9250	1.9250	0.0000	5,472.0875	5,472.0875	1.3502		5,505.8424
Total	**4.0455**	**37.4984**	**35.3413**	**0.0576**		**2.0503**	**2.0503**		**1.9250**	**1.9250**	**0.0000**	**5,472.0875**	**5,472.0875**	**1.3502**		**5,505.8424**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2148	8.5136	1.5190	0.0238	0.5891	0.0162	0.6053	0.1696	0.0155	0.1851		2,513.9094	2,513.9094	0.1799		2,518.4056
Worker	1.2516	0.7130	9.7604	0.0282	2.9509	0.0174	2.9683	0.7826	0.0160	0.7986		2,810.9424	2,810.9424	0.0670		2,812.6180
Total	**1.4664**	**9.2266**	**11.2794**	**0.0521**	**3.5400**	**0.0336**	**3.5736**	**0.9522**	**0.0315**	**0.9837**		**5,324.8518**	**5,324.8518**	**0.2469**		**5,331.0236**

3.4 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
Total	**0.0711**	**0.0405**	**0.5546**	**1.6000e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**159.7126**	**159.7126**	**3.8100e-003**		**159.8078**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2556**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
Total	**0.0711**	**0.0405**	**0.5546**	**1.6000e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**159.7126**	**159.7126**	**3.8100e-003**		**159.8078**

3.5 Architectural Coating - 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					
Archit. Coating	35.5019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**35.7938**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.2513	0.1432	1.9595	5.6600e-003	0.5924	3.4900e-003	0.5959	0.1571	3.2100e-003	0.1603		564.3180	564.3180	0.0135		564.6544
Total	**0.2513**	**0.1432**	**1.9595**	**5.6600e-003**	**0.5924**	**3.4900e-003**	**0.5959**	**0.1571**	**3.2100e-003**	**0.1603**		**564.3180**	**564.3180**	**0.0135**		**564.6544**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.5019					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**35.7938**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.2513	0.1432	1.9595	5.6600e-003	0.5924	3.4900e-003	0.5959	0.1571	3.2100e-003	0.1603		564.3180	564.3180	0.0135		564.6544
Total	**0.2513**	**0.1432**	**1.9595**	**5.6600e-003**	**0.5924**	**3.4900e-003**	**0.5959**	**0.1571**	**3.2100e-003**	**0.1603**		**564.3180**	**564.3180**	**0.0135**		**564.6544**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339
Unmitigated	67.9491	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445	0.0000	47.0929	47.0929	0.0456	0.0000	48.2339

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					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	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**		**0.1445**	**0.1445**		**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					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	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**67.9491**	**0.3026**	**26.2106**	**1.3800e-003**		**0.1445**	**0.1445**		**0.1445**	**0.1445**	**0.0000**	**47.0929**	**47.0929**	**0.0456**	**0.0000**	**48.2339**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.4:

CALEEMOD CONSTRUCTION PHASE 2 (MITIGATED) EMISSIONS MODEL OUTPUTS

Canterwood Phase 2 (Construction - Mitigated)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	257.00	Dwelling Unit	67.08	2,529,908.00	735

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Phase 2 (Construction - Mitigated) - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Lot Acreage based on Site Plan. Square Foot based on largest floor plan of 9,844 SF.

Construction Phase - Building Construction adjusted to reflect Phase 2 Site Preparation activities to overlap with Phase 1 Buidling Construction activities.

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

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Vehicle Trips - Construction Run Only.

Woodstoves - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Architectural Coating - Use Super Low VOC Paint

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblConstructionPhase	NumDays	1,110.00	600.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Canterwood Phase 2 (Construction - Mitigated) - Riverside-South Coast County, Winter

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	218.45	0.00
tblFireplaces	NumberNoFireplace	25.70	0.00
tblFireplaces	NumberWood	12.85	0.00
tblLandUse	LandUseSquareFeet	462,600.00	2,529,908.00
tblLandUse	LotAcreage	83.44	67.08
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	301.35	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	9.91	0.00

tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	16,744,584.58	0.00
tblWater	OutdoorWaterUseRate	10,556,368.54	0.00
tblWoodstoves	NumberCatalytic	12.85	0.00
tblWoodstoves	NumberNoncatalytic	12.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2569	12.8811	6.4472	0.0121	6.0780	0.6446	6.7225	3.3251	0.5930	3.9181	0.0000	1,176.0120	1,176.0120	0.3660	0.0000	1,185.1620
2022	4.0977	36.1015	37.9267	0.0729	6.0780	1.7391	6.5858	3.3251	1.6339	3.7922	0.0000	7,034.0474	7,034.0474	1.4164	0.0000	7,069.4564
2023	3.7765	32.8346	37.3977	0.0724	1.2124	1.5038	2.7162	0.3255	1.4129	1.7384	0.0000	6,985.2774	6,985.2774	1.3931	0.0000	7,020.1057
2024	42.5288	30.7799	37.0662	0.0721	1.2124	1.3205	2.5329	0.3255	1.2403	1.5657	0.0000	6,954.4444	6,954.4444	1.3838	0.0000	6,989.0395
Maximum	**42.5288**	**36.1015**	**37.9267**	**0.0729**	**6.0780**	**1.7391**	**6.7225**	**3.3251**	**1.6339**	**3.9181**	**0.0000**	**7,034.0474**	**7,034.0474**	**1.4164**	**0.0000**	**7,069.4564**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2569	12.8811	6.4472	0.0121	2.4045	0.6446	3.0491	1.3058	0.5930	1.8988	0.0000	1,176.0120	1,176.0120	0.3660	0.0000	1,185.1620
2022	4.0977	36.1015	37.9267	0.0729	2.4045	1.7391	2.9515	1.3058	1.6339	1.9594	0.0000	7,034.0474	7,034.0474	1.4164	0.0000	7,069.4564
2023	3.7765	32.8346	37.3977	0.0724	1.2124	1.5038	2.7162	0.3255	1.4129	1.7384	0.0000	6,985.2774	6,985.2774	1.3931	0.0000	7,020.1057
2024	42.5288	30.7799	37.0662	0.0721	1.2124	1.3205	2.5329	0.3255	1.2403	1.5657	0.0000	6,954.4444	6,954.4444	1.3838	0.0000	6,989.0395
Maximum	**42.5288**	**36.1015**	**37.9267**	**0.0729**	**2.4045**	**1.7391**	**3.0491**	**1.3058**	**1.6339**	**1.9594**	**0.0000**	**7,034.0474**	**7,034.0474**	**1.4164**	**0.0000**	**7,069.4564**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.39**	**0.00**	**39.38**	**55.31**	**0.00**	**34.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2021	1/27/2022	5	40	
2	Building Construction	Building Construction	1/28/2022	5/16/2024	5	600	
3	Paving	Paving	5/17/2024	8/29/2024	5	75	
4	Architectural Coating	Architectural Coating	8/30/2024	12/12/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 5,123,064; Residential Outdoor: 1,707,688; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	93.00	27.00	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	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
Total	**1.2336**	**12.8671**	**6.2980**	**0.0116**	**6.0221**	**0.6442**	**6.6663**	**3.3102**	**0.5927**	**3.9029**		**1,128.2523**	**1,128.2523**	**0.3649**		**1,137.3748**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0233	0.0140	0.1492	4.8000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.0000e-004	0.0151		47.7597	47.7597	1.1000e-003		47.7873
Total	**0.0233**	**0.0140**	**0.1492**	**4.8000e-004**	**0.0559**	**3.3000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**47.7597**	**47.7597**	**1.1000e-003**		**47.7873**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748
Total	**1.2336**	**12.8671**	**6.2980**	**0.0116**	**2.3486**	**0.6442**	**2.9928**	**1.2910**	**0.5927**	**1.8837**	**0.0000**	**1,128.2523**	**1,128.2523**	**0.3649**		**1,137.3748**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0233	0.0140	0.1492	4.8000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.0000e-004	0.0151		47.7597	47.7597	1.1000e-003		47.7873
Total	**0.0233**	**0.0140**	**0.1492**	**4.8000e-004**	**0.0559**	**3.3000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**47.7597**	**47.7597**	**1.1000e-003**		**47.7873**

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669		1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**6.0221**	**0.5075**	**6.5296**	**3.3102**	**0.4669**	**3.7771**		**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0218	0.0126	0.1374	4.6000e-004	0.0559	3.2000e-004	0.0562	0.0148	3.0000e-004	0.0151		46.0169	46.0169	9.9000e-004		46.0418
Total	**0.0218**	**0.0126**	**0.1374**	**4.6000e-004**	**0.0559**	**3.2000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**46.0169**	**46.0169**	**9.9000e-004**		**46.0418**

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669	0.0000	1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**2.3486**	**0.5075**	**2.8561**	**1.2910**	**0.4669**	**1.7579**	**0.0000**	**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0218	0.0126	0.1374	4.6000e-004	0.0559	3.2000e-004	0.0562	0.0148	3.0000e-004	0.0151		46.0169	46.0169	9.9000e-004		46.0418
Total	**0.0218**	**0.0126**	**0.1374**	**4.6000e-004**	**0.0559**	**3.2000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**46.0169**	**46.0169**	**9.9000e-004**		**46.0418**

3.3 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	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245		5,474.3040	5,474.3040	1.3421		5,507.8576
Total	**3.6293**	**33.5341**	**34.8784**	**0.0576**		**1.7291**	**1.7291**		**1.6245**	**1.6245**		**5,474.3040**	**5,474.3040**	**1.3421**		**5,507.8576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0625	2.3337	0.4923	6.6700e-003	0.1729	4.1200e-003	0.1770	0.0498	3.9400e-003	0.0537		703.8283	703.8283	0.0558		705.2222
Worker	0.4059	0.2337	2.5561	8.5800e-003	1.0395	5.9600e-003	1.0455	0.2757	5.4900e-003	0.2812		855.9152	855.9152	0.0185		856.3766
Total	**0.4684**	**2.5674**	**3.0483**	**0.0153**	**1.2124**	**0.0101**	**1.2225**	**0.3255**	**9.4300e-003**	**0.3349**		**1,559.7434**	**1,559.7434**	**0.0742**		**1,561.5988**

3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245	0.0000	5,474.3040	5,474.3040	1.3421		5,507.8576
Total	**3.6293**	**33.5341**	**34.8784**	**0.0576**		**1.7291**	**1.7291**		**1.6245**	**1.6245**	**0.0000**	**5,474.3040**	**5,474.3040**	**1.3421**		**5,507.8576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0625	2.3337	0.4923	6.6700e-003	0.1729	4.1200e-003	0.1770	0.0498	3.9400e-003	0.0537		703.8283	703.8283	0.0558		705.2222
Worker	0.4059	0.2337	2.5561	8.5800e-003	1.0395	5.9600e-003	1.0455	0.2757	5.4900e-003	0.2812		855.9152	855.9152	0.0185		856.3766
Total	**0.4684**	**2.5674**	**3.0483**	**0.0153**	**1.2124**	**0.0101**	**1.2225**	**0.3255**	**9.4300e-003**	**0.3349**		**1,559.7434**	**1,559.7434**	**0.0742**		**1,561.5988**

3.3 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	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	**3.3469**	**30.8754**	**34.6201**	**0.0577**		**1.4962**	**1.4962**		**1.4058**	**1.4058**		**5,476.3070**	**5,476.3070**	**1.3340**		**5,509.6577**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0478	1.7485	0.4221	6.5000e-003	0.1729	1.8400e-003	0.1747	0.0498	1.7600e-003	0.0515		685.5371	685.5371	0.0425		686.6001
Worker	0.3818	0.2106	2.3555	8.2600e-003	1.0395	5.8200e-003	1.0453	0.2757	5.3600e-003	0.2811		823.4332	823.4332	0.0166		823.8480
Total	**0.4296**	**1.9591**	**2.7776**	**0.0148**	**1.2124**	**7.6600e-003**	**1.2201**	**0.3255**	**7.1200e-003**	**0.3326**		**1,508.9703**	**1,508.9703**	**0.0591**		**1,510.4481**

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	**3.3469**	**30.8754**	**34.6201**	**0.0577**		**1.4962**	**1.4962**		**1.4058**	**1.4058**	**0.0000**	**5,476.3070**	**5,476.3070**	**1.3340**		**5,509.6577**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0478	1.7485	0.4221	6.5000e-003	0.1729	1.8400e-003	0.1747	0.0498	1.7600e-003	0.0515		685.5371	685.5371	0.0425		686.6001
Worker	0.3818	0.2106	2.3555	8.2600e-003	1.0395	5.8200e-003	1.0453	0.2757	5.3600e-003	0.2811		823.4332	823.4332	0.0166		823.8480
Total	**0.4296**	**1.9591**	**2.7776**	**0.0148**	**1.2124**	**7.6600e-003**	**1.2201**	**0.3255**	**7.1200e-003**	**0.3326**		**1,508.9703**	**1,508.9703**	**0.0591**		**1,510.4481**

3.3 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	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017
Total	**3.1340**	**28.8498**	**34.4540**	**0.0577**		**1.3129**	**1.3129**		**1.2332**	**1.2332**		**5,477.4247**	**5,477.4247**	**1.3271**		**5,510.6017**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0468	1.7392	0.4085	6.4700e-003	0.1729	1.8300e-003	0.1747	0.0498	1.7500e-003	0.0515		683.1035	683.1035	0.0416		684.1432
Worker	0.3609	0.1909	2.2037	7.9600e-003	1.0395	5.7600e-003	1.0453	0.2757	5.3000e-003	0.2810		793.9162	793.9162	0.0151		794.2946
Total	**0.4078**	**1.9301**	**2.6122**	**0.0144**	**1.2124**	**7.5900e-003**	**1.2200**	**0.3255**	**7.0500e-003**	**0.3325**		**1,477.0197**	**1,477.0197**	**0.0567**		**1,478.4378**

3.3 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	**3.1340**	**28.8498**	**34.4540**	**0.0577**		**1.3129**	**1.3129**		**1.2332**	**1.2332**	**0.0000**	**5,477.4247**	**5,477.4247**	**1.3271**		**5,510.6017**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0468	1.7392	0.4085	6.4700e-003	0.1729	1.8300e-003	0.1747	0.0498	1.7500e-003	0.0515		683.1035	683.1035	0.0416		684.1432
Worker	0.3609	0.1909	2.2037	7.9600e-003	1.0395	5.7600e-003	1.0453	0.2757	5.3000e-003	0.2810		793.9162	793.9162	0.0151		794.2946
Total	**0.4078**	**1.9301**	**2.6122**	**0.0144**	**1.2124**	**7.5900e-003**	**1.2200**	**0.3255**	**7.0500e-003**	**0.3325**		**1,477.0197**	**1,477.0197**	**0.0567**		**1,478.4378**

3.4 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0308	0.3554	1.2800e-003	0.1677	9.3000e-004	0.1686	0.0445	8.6000e-004	0.0453		128.0510	128.0510	2.4400e-003		128.1120
Total	**0.0582**	**0.0308**	**0.3554**	**1.2800e-003**	**0.1677**	**9.3000e-004**	**0.1686**	**0.0445**	**8.6000e-004**	**0.0453**		**128.0510**	**128.0510**	**2.4400e-003**		**128.1120**

3.4 Paving - 2024

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0308	0.3554	1.2800e-003	0.1677	9.3000e-004	0.1686	0.0445	8.6000e-004	0.0453		128.0510	128.0510	2.4400e-003		128.1120
Total	**0.0582**	**0.0308**	**0.3554**	**1.2800e-003**	**0.1677**	**9.3000e-004**	**0.1686**	**0.0445**	**8.6000e-004**	**0.0453**		**128.0510**	**128.0510**	**2.4400e-003**		**128.1120**

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.2141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	**42.4551**	**1.6251**	**2.4135**	**3.9600e-003**		**0.0812**	**0.0812**		**0.0812**	**0.0812**		**375.2641**	**375.2641**	**0.0211**		**375.7923**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0737	0.0390	0.4502	1.6300e-003	0.2124	1.1800e-003	0.2136	0.0563	1.0800e-003	0.0574		162.1979	162.1979	3.0900e-003		162.2752
Total	**0.0737**	**0.0390**	**0.4502**	**1.6300e-003**	**0.2124**	**1.1800e-003**	**0.2136**	**0.0563**	**1.0800e-003**	**0.0574**		**162.1979**	**162.1979**	**3.0900e-003**		**162.2752**

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.2141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	**42.4551**	**1.6251**	**2.4135**	**3.9600e-003**		**0.0812**	**0.0812**		**0.0812**	**0.0812**	**0.0000**	**375.2641**	**375.2641**	**0.0211**		**375.7923**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0737	0.0390	0.4502	1.6300e-003	0.2124	1.1800e-003	0.2136	0.0563	1.0800e-003	0.0574		162.1979	162.1979	3.0900e-003		162.2752
Total	**0.0737**	**0.0390**	**0.4502**	**1.6300e-003**	**0.2124**	**1.1800e-003**	**0.2136**	**0.0563**	**1.0800e-003**	**0.0574**		**162.1979**	**162.1979**	**3.0900e-003**		**162.2752**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Unmitigated	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919

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	4.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	50.0922					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	0.6360	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175		38.1779	38.1779	0.0366		39.0919
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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	4.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	50.0922					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	0.6360	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175		38.1779	38.1779	0.0366		39.0919
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Canterwood Phase 2 (Construction - Mitigated)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	257.00	Dwelling Unit	67.08	2,529,908.00	735

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Canterwood Phase 2 (Construction - Mitigated) - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Lot Acreage based on Site Plan. Square Foot based on largest floor plan of 9,844 SF.

Construction Phase - Building Construction adjusted to reflect Phase 2 Site Preparation activities to overlap with Phase 1 Buidling Construction activities.

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

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Off-road Equipment -

Off-road Equipment - Construction Equipment adjusted as per direction from the Project Applicant.

Vehicle Trips - Construction Run Only.

Woodstoves - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation -

Trips and VMT -

Architectural Coating - Use Super Low VOC Paint

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblConstructionPhase	NumDays	1,110.00	600.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	T24E	951.67	0.00
tblEnergyUse	T24NG	24,566.15	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Canterwood Phase 2 (Construction - Mitigated) - Riverside-South Coast County, Summer

tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	218.45	0.00
tblFireplaces	NumberNoFireplace	25.70	0.00
tblFireplaces	NumberWood	12.85	0.00
tblLandUse	LandUseSquareFeet	462,600.00	2,529,908.00
tblLandUse	LotAcreage	83.44	67.08
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	301.35	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	HW_TTP	40.20	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	0.00
tblVehicleTrips	ST_TR	9.91	0.00

tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	16,744,584.58	0.00
tblWater	OutdoorWaterUseRate	10,556,368.54	0.00
tblWoodstoves	NumberCatalytic	12.85	0.00
tblWoodstoves	NumberNoncatalytic	12.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2573	12.8806	6.4829	0.0122	6.0780	0.6446	6.7225	3.3251	0.5930	3.9181	0.0000	1,181.4898	1,181.4898	0.3662	0.0000	1,190.6440
2022	4.1005	36.1175	38.4644	0.0741	6.0780	1.7390	6.5858	3.3251	1.6338	3.7922	0.0000	7,159.8388	7,159.8388	1.4133	0.0000	7,195.1723
2023	3.7787	32.8519	37.9124	0.0736	1.2124	1.5038	2.7162	0.3255	1.4129	1.7383	0.0000	7,106.1307	7,106.1307	1.3914	0.0000	7,140.9162
2024	42.5295	30.7977	37.5514	0.0733	1.2124	1.3205	2.5329	0.3255	1.2402	1.5657	0.0000	7,071.6991	7,071.6991	1.3820	0.0000	7,106.2482
Maximum	**42.5295**	**36.1175**	**38.4644**	**0.0741**	**6.0780**	**1.7390**	**6.7225**	**3.3251**	**1.6338**	**3.9181**	**0.0000**	**7,159.8388**	**7,159.8388**	**1.4133**	**0.0000**	**7,195.1723**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2573	12.8806	6.4829	0.0122	2.4045	0.6446	3.0491	1.3058	0.5930	1.8988	0.0000	1,181.4898	1,181.4898	0.3662	0.0000	1,190.6440
2022	4.1005	36.1175	38.4644	0.0741	2.4045	1.7390	2.9514	1.3058	1.6338	1.9592	0.0000	7,159.8388	7,159.8388	1.4133	0.0000	7,195.1723
2023	3.7787	32.8519	37.9124	0.0736	1.2124	1.5038	2.7162	0.3255	1.4129	1.7383	0.0000	7,106.1307	7,106.1307	1.3914	0.0000	7,140.9162
2024	42.5295	30.7977	37.5514	0.0733	1.2124	1.3205	2.5329	0.3255	1.2402	1.5657	0.0000	7,071.6991	7,071.6991	1.3820	0.0000	7,106.2482
Maximum	**42.5295**	**36.1175**	**38.4644**	**0.0741**	**2.4045**	**1.7390**	**3.0491**	**1.3058**	**1.6338**	**1.9592**	**0.0000**	**7,159.8388**	**7,159.8388**	**1.4133**	**0.0000**	**7,195.1723**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.39**	**0.00**	**39.38**	**55.31**	**0.00**	**34.98**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/3/2021	1/27/2022	5	40	
2	Building Construction	Building Construction	1/28/2022	5/16/2024	5	600	
3	Paving	Paving	5/17/2024	8/29/2024	5	75	
4	Architectural Coating	Architectural Coating	8/30/2024	12/12/2024	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 5,123,064; Residential Outdoor: 1,707,688; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Canterwood Phase 2 (Construction - Mitigated) - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

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	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	93.00	27.00	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	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927		1,128.2523	1,128.2523	0.3649		1,137.3748
Total	**1.2336**	**12.8671**	**6.2980**	**0.0116**	**6.0221**	**0.6442**	**6.6663**	**3.3102**	**0.5927**	**3.9029**		**1,128.2523**	**1,128.2523**	**0.3649**		**1,137.3748**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0237	0.0135	0.1849	5.3000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.0000e-004	0.0151		53.2376	53.2376	1.2700e-003		53.2693
Total	**0.0237**	**0.0135**	**0.1849**	**5.3000e-004**	**0.0559**	**3.3000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**53.2376**	**53.2376**	**1.2700e-003**		**53.2693**

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.2336	12.8671	6.2980	0.0116		0.6442	0.6442		0.5927	0.5927	0.0000	1,128.2523	1,128.2523	0.3649		1,137.3748
Total	**1.2336**	**12.8671**	**6.2980**	**0.0116**	**2.3486**	**0.6442**	**2.9928**	**1.2910**	**0.5927**	**1.8837**	**0.0000**	**1,128.2523**	**1,128.2523**	**0.3649**		**1,137.3748**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0237	0.0135	0.1849	5.3000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.0000e-004	0.0151		53.2376	53.2376	1.2700e-003		53.2693
Total	**0.0237**	**0.0135**	**0.1849**	**5.3000e-004**	**0.0559**	**3.3000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**53.2376**	**53.2376**	**1.2700e-003**		**53.2693**

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669		1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**6.0221**	**0.5075**	**6.5296**	**3.3102**	**0.4669**	**3.7771**		**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0222	0.0122	0.1705	5.1000e-004	0.0559	3.2000e-004	0.0562	0.0148	3.0000e-004	0.0151		51.2923	51.2923	1.1400e-003		51.3208
Total	**0.0222**	**0.0122**	**0.1705**	**5.1000e-004**	**0.0559**	**3.2000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**51.2923**	**51.2923**	**1.1400e-003**		**51.3208**

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669	0.0000	1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**2.3486**	**0.5075**	**2.8561**	**1.2910**	**0.4669**	**1.7579**	**0.0000**	**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0222	0.0122	0.1705	5.1000e-004	0.0559	3.2000e-004	0.0562	0.0148	3.0000e-004	0.0151		51.2923	51.2923	1.1400e-003		51.3208
Total	**0.0222**	**0.0122**	**0.1705**	**5.1000e-004**	**0.0559**	**3.2000e-004**	**0.0562**	**0.0148**	**3.0000e-004**	**0.0151**		**51.2923**	**51.2923**	**1.1400e-003**		**51.3208**

3.3 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	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245		5,474.3040	5,474.3040	1.3421		5,507.8576
Total	**3.6293**	**33.5341**	**34.8784**	**0.0576**		**1.7291**	**1.7291**		**1.6245**	**1.6245**		**5,474.3040**	**5,474.3040**	**1.3421**		**5,507.8576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0588	2.3573	0.4146	6.9300e-003	0.1729	4.0000e-003	0.1769	0.0498	3.8200e-003	0.0536		731.4980	731.4980	0.0500		732.7477
Worker	0.4124	0.2261	3.1714	9.5700e-003	1.0395	5.9600e-003	1.0455	0.2757	5.4900e-003	0.2812		954.0368	954.0368	0.0212		954.5670
Total	**0.4712**	**2.5834**	**3.5860**	**0.0165**	**1.2124**	**9.9600e-003**	**1.2224**	**0.3255**	**9.3100e-003**	**0.3348**		**1,685.5348**	**1,685.5348**	**0.0712**		**1,687.3147**

3.3 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245	0.0000	5,474.3040	5,474.3040	1.3421		5,507.8576
Total	**3.6293**	**33.5341**	**34.8784**	**0.0576**		**1.7291**	**1.7291**		**1.6245**	**1.6245**	**0.0000**	**5,474.3040**	**5,474.3040**	**1.3421**		**5,507.8576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0588	2.3573	0.4146	6.9300e-003	0.1729	4.0000e-003	0.1769	0.0498	3.8200e-003	0.0536		731.4980	731.4980	0.0500		732.7477
Worker	0.4124	0.2261	3.1714	9.5700e-003	1.0395	5.9600e-003	1.0455	0.2757	5.4900e-003	0.2812		954.0368	954.0368	0.0212		954.5670
Total	**0.4712**	**2.5834**	**3.5860**	**0.0165**	**1.2124**	**9.9600e-003**	**1.2224**	**0.3255**	**9.3100e-003**	**0.3348**		**1,685.5348**	**1,685.5348**	**0.0712**		**1,687.3147**

3.3 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	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	**3.3469**	**30.8754**	**34.6201**	**0.0577**		**1.4962**	**1.4962**		**1.4058**	**1.4058**		**5,476.3070**	**5,476.3070**	**1.3340**		**5,509.6577**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0451	1.7726	0.3655	6.7500e-003	0.1729	1.7800e-003	0.1747	0.0498	1.7000e-003	0.0515		712.0428	712.0428	0.0384		713.0017
Worker	0.3867	0.2039	2.9268	9.2100e-003	1.0395	5.8200e-003	1.0453	0.2757	5.3600e-003	0.2811		917.7809	917.7809	0.0190		918.2568
Total	**0.4318**	**1.9765**	**3.2923**	**0.0160**	**1.2124**	**7.6000e-003**	**1.2200**	**0.3255**	**7.0600e-003**	**0.3325**		**1,629.8237**	**1,629.8237**	**0.0574**		**1,631.2585**

3.3 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	**3.3469**	**30.8754**	**34.6201**	**0.0577**		**1.4962**	**1.4962**		**1.4058**	**1.4058**	**0.0000**	**5,476.3070**	**5,476.3070**	**1.3340**		**5,509.6577**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0451	1.7726	0.3655	6.7500e-003	0.1729	1.7800e-003	0.1747	0.0498	1.7000e-003	0.0515		712.0428	712.0428	0.0384		713.0017
Worker	0.3867	0.2039	2.9268	9.2100e-003	1.0395	5.8200e-003	1.0453	0.2757	5.3600e-003	0.2811		917.7809	917.7809	0.0190		918.2568
Total	**0.4318**	**1.9765**	**3.2923**	**0.0160**	**1.2124**	**7.6000e-003**	**1.2200**	**0.3255**	**7.0600e-003**	**0.3325**		**1,629.8237**	**1,629.8237**	**0.0574**		**1,631.2585**

3.3 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	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017
Total	**3.1340**	**28.8498**	**34.4540**	**0.0577**		**1.3129**	**1.3129**		**1.2332**	**1.2332**		**5,477.4247**	**5,477.4247**	**1.3271**		**5,510.6017**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0442	1.7630	0.3530	6.7200e-003	0.1729	1.7700e-003	0.1747	0.0498	1.7000e-003	0.0515		709.2572	709.2572	0.0375		710.1953
Worker	0.3644	0.1849	2.7443	8.8800e-003	1.0395	5.7600e-003	1.0453	0.2757	5.3000e-003	0.2810		885.0173	885.0173	0.0174		885.4512
Total	**0.4086**	**1.9478**	**3.0974**	**0.0156**	**1.2124**	**7.5300e-003**	**1.2199**	**0.3255**	**7.0000e-003**	**0.3325**		**1,594.2744**	**1,594.2744**	**0.0549**		**1,595.6465**

3.3 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	**3.1340**	**28.8498**	**34.4540**	**0.0577**		**1.3129**	**1.3129**		**1.2332**	**1.2332**	**0.0000**	**5,477.4247**	**5,477.4247**	**1.3271**		**5,510.6017**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0442	1.7630	0.3530	6.7200e-003	0.1729	1.7700e-003	0.1747	0.0498	1.7000e-003	0.0515		709.2572	709.2572	0.0375		710.1953
Worker	0.3644	0.1849	2.7443	8.8800e-003	1.0395	5.7600e-003	1.0453	0.2757	5.3000e-003	0.2810		885.0173	885.0173	0.0174		885.4512
Total	**0.4086**	**1.9478**	**3.0974**	**0.0156**	**1.2124**	**7.5300e-003**	**1.2199**	**0.3255**	**7.0000e-003**	**0.3325**		**1,594.2744**	**1,594.2744**	**0.0549**		**1,595.6465**

3.4 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**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**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0588	0.0298	0.4426	1.4300e-003	0.1677	9.3000e-004	0.1686	0.0445	8.6000e-004	0.0453		142.7447	142.7447	2.8000e-003		142.8147
Total	**0.0588**	**0.0298**	**0.4426**	**1.4300e-003**	**0.1677**	**9.3000e-004**	**0.1686**	**0.0445**	**8.6000e-004**	**0.0453**		**142.7447**	**142.7447**	**2.8000e-003**		**142.8147**

3.4 Paving - 2024

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0588	0.0298	0.4426	1.4300e-003	0.1677	9.3000e-004	0.1686	0.0445	8.6000e-004	0.0453		142.7447	142.7447	2.8000e-003		142.8147
Total	**0.0588**	**0.0298**	**0.4426**	**1.4300e-003**	**0.1677**	**9.3000e-004**	**0.1686**	**0.0445**	**8.6000e-004**	**0.0453**		**142.7447**	**142.7447**	**2.8000e-003**		**142.8147**

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.2141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	**42.4551**	**1.6251**	**2.4135**	**3.9600e-003**		**0.0812**	**0.0812**		**0.0812**	**0.0812**		**375.2641**	**375.2641**	**0.0211**		**375.7923**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0745	0.0378	0.5607	1.8100e-003	0.2124	1.1800e-003	0.2136	0.0563	1.0800e-003	0.0574		180.8100	180.8100	3.5500e-003		180.8986
Total	**0.0745**	**0.0378**	**0.5607**	**1.8100e-003**	**0.2124**	**1.1800e-003**	**0.2136**	**0.0563**	**1.0800e-003**	**0.0574**		**180.8100**	**180.8100**	**3.5500e-003**		**180.8986**

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.2141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	**42.4551**	**1.6251**	**2.4135**	**3.9600e-003**		**0.0812**	**0.0812**		**0.0812**	**0.0812**	**0.0000**	**375.2641**	**375.2641**	**0.0211**		**375.7923**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0745	0.0378	0.5607	1.8100e-003	0.2124	1.1800e-003	0.2136	0.0563	1.0800e-003	0.0574		180.8100	180.8100	3.5500e-003		180.8986
Total	**0.0745**	**0.0378**	**0.5607**	**1.8100e-003**	**0.2124**	**1.1800e-003**	**0.2136**	**0.0563**	**1.0800e-003**	**0.0574**		**180.8100**	**180.8100**	**3.5500e-003**		**180.8986**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.554334	0.035376	0.188722	0.108173	0.012711	0.004530	0.017449	0.070039	0.001415	0.001123	0.004446	0.000892	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919
Unmitigated	55.0652	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175	0.0000	38.1779	38.1779	0.0366	0.0000	39.0919

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	4.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	50.0922					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	0.6360	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175		38.1779	38.1779	0.0366		39.0919
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

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	4.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	50.0922					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	0.6360	0.2440	21.1827	1.1200e-003		0.1175	0.1175		0.1175	0.1175		38.1779	38.1779	0.0366		39.0919
Total	**55.0652**	**0.2440**	**21.1827**	**1.1200e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**38.1779**	**38.1779**	**0.0366**	**0.0000**	**39.0919**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.5:

CALEEMOD OPERATIONS PHASE 1 EMISSIONS MODEL OUTPUTS

Canterwood (Operations)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	317.00	Dwelling Unit	82.74	3,120,548.00	907
City Park	8.20	Acre	8.20	357,192.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot Acreage based on Site Plan, SF based on largest floor plan of 9,844 SF.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates from TIA by Urban Crossroads

Woodstoves - Gas Stoves Only.

Canterwood (Operations) - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	60.00	1.00
tblConstructionPhase	PhaseEndDate	11/9/2018	4/18/2018
tblConstructionPhase	PhaseStartDate	8/18/2018	4/18/2018
tblFireplaces	NumberGas	269.45	317.00
tblFireplaces	NumberNoFireplace	31.70	0.00
tblFireplaces	NumberWood	15.85	0.00
tblLandUse	LandUseSquareFeet	570,600.00	3,120,548.00
tblLandUse	LotAcreage	102.92	82.74
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblVehicleTrips	ST_TR	22.75	1.96
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	16.74	2.19
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	0.78
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	15.85	0.00
tblWoodstoves	NumberNoncatalytic	15.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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	68.5644	5.5610	28.4482	0.0350		0.5696	0.5696		0.5696	0.5696	0.0000	6,760.0341	6,760.0341	0.1743	0.1231	6,801.0667
Energy	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
Mobile	5.2174	44.1545	63.7959	0.2814	22.1501	0.2124	22.3625	5.9267	0.1994	6.1260		28,733.8965	28,733.8965	1.5351		28,772.2734
Total	**74.0684**	**52.1644**	**93.2862**	**0.3320**	**22.1501**	**0.9800**	**23.1302**	**5.9267**	**0.9670**	**6.8937**	**0.0000**	**38,620.1126**	**38,620.1126**	**1.7693**	**0.1804**	**38,718.0994**

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	68.5644	5.5610	28.4482	0.0350		0.5696	0.5696		0.5696	0.5696	0.0000	6,760.0341	6,760.0341	0.1743	0.1231	6,801.0667
Energy	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
Mobile	5.2174	44.1545	63.7959	0.2814	22.1501	0.2124	22.3625	5.9267	0.1994	6.1260		28,733.8965	28,733.8965	1.5351		28,772.2734
Total	**74.0684**	**52.1644**	**93.2862**	**0.3320**	**22.1501**	**0.9800**	**23.1302**	**5.9267**	**0.9670**	**6.8937**	**0.0000**	**38,620.1126**	**38,620.1126**	**1.7693**	**0.1804**	**38,718.0994**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/18/2018	4/18/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2174	44.1545	63.7959	0.2814	22.1501	0.2124	22.3625	5.9267	0.1994	6.1260		28,733.8965	28,733.8965	1.5351		28,772.2734
Unmitigated	5.2174	44.1545	63.7959	0.2814	22.1501	0.2124	22.3625	5.9267	0.1994	6.1260		28,733.8965	28,733.8965	1.5351		28,772.2734

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.40	16.07	17.96	27,135	27,135
Single Family Housing	2,992.48	3,024.18	2710.35	10,103,508	10,103,508
Total	2,998.88	3,040.25	2,728.31	10,130,643	10,130,643

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
NaturalGas Unmitigated	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	26572.5	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
Total		**0.2866**	**2.4488**	**1.0421**	**0.0156**		**0.1980**	**0.1980**		**0.1980**	**0.1980**		**3,126.1820**	**3,126.1820**	**0.0599**	**0.0573**	**3,144.7593**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	26.5725	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
Total		**0.2866**	**2.4488**	**1.0421**	**0.0156**		**0.1980**	**0.1980**		**0.1980**	**0.1980**		**3,126.1820**	**3,126.1820**	**0.0599**	**0.0573**	**3,144.7593**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	68.5644	5.5610	28.4482	0.0350		0.5696	0.5696		0.5696	0.5696	0.0000	6,760.0341	6,760.0341	0.1743	0.1231	6,801.0667
Unmitigated	68.5644	5.5610	28.4482	0.0350		0.5696	0.5696		0.5696	0.5696	0.0000	6,760.0341	6,760.0341	0.1743	0.1231	6,801.0667

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6154	5.2585	2.2377	0.0336		0.4252	0.4252		0.4252	0.4252	0.0000	6,712.9412	6,712.9412	0.1287	0.1231	6,752.8328
Landscaping	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**68.5644**	**5.5610**	**28.4482**	**0.0349**		**0.5696**	**0.5696**		**0.5696**	**0.5696**	**0.0000**	**6,760.0341**	**6,760.0341**	**0.1743**	**0.1231**	**6,801.0667**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6154	5.2585	2.2377	0.0336		0.4252	0.4252		0.4252	0.4252	0.0000	6,712.9412	6,712.9412	0.1287	0.1231	6,752.8328
Landscaping	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**68.5644**	**5.5610**	**28.4482**	**0.0349**		**0.5696**	**0.5696**		**0.5696**	**0.5696**	**0.0000**	**6,760.0341**	**6,760.0341**	**0.1743**	**0.1231**	**6,801.0667**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Canterwood (Operations)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	317.00	Dwelling Unit	82.74	3,120,548.00	907
City Park	8.20	Acre	8.20	357,192.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot Acreage based on Site Plan, SF based on largest floor plan of 9,844 SF.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates from TIA by Urban Crossroads

Woodstoves - Gas Stoves Only.

Canterwood (Operations) - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	60.00	1.00
tblConstructionPhase	PhaseEndDate	11/9/2018	4/18/2018
tblConstructionPhase	PhaseStartDate	8/18/2018	4/18/2018
tblFireplaces	NumberGas	269.45	317.00
tblFireplaces	NumberNoFireplace	31.70	0.00
tblFireplaces	NumberWood	15.85	0.00
tblLandUse	LandUseSquareFeet	570,600.00	3,120,548.00
tblLandUse	LotAcreage	102.92	82.74
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblVehicleTrips	ST_TR	22.75	1.96
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	16.74	2.19
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	0.78
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	15.85	0.00
tblWoodstoves	NumberNoncatalytic	15.85	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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	68.5644	5.5610	28.4482	0.0350		0.5696	0.5696		0.5696	0.5696	0.0000	6,760.0341	6,760.0341	0.1743	0.1231	6,801.0667
Energy	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
Mobile	6.1431	44.0770	73.8031	0.3051	22.1501	0.2103	22.3604	5.9267	0.1974	6.1240		31,113.3004	31,113.3004	1.4906		31,150.5659
Total	**74.9941**	**52.0869**	**103.2933**	**0.3557**	**22.1501**	**0.9779**	**23.1281**	**5.9267**	**0.9650**	**6.8917**	**0.0000**	**40,999.5164**	**40,999.5164**	**1.7248**	**0.1804**	**41,096.3919**

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	68.5644	5.5610	28.4482	0.0350		0.5696	0.5696		0.5696	0.5696	0.0000	6,760.0341	6,760.0341	0.1743	0.1231	6,801.0667
Energy	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
Mobile	6.1431	44.0770	73.8031	0.3051	22.1501	0.2103	22.3604	5.9267	0.1974	6.1240		31,113.3004	31,113.3004	1.4906		31,150.5659
Total	**74.9941**	**52.0869**	**103.2933**	**0.3557**	**22.1501**	**0.9779**	**23.1281**	**5.9267**	**0.9650**	**6.8917**	**0.0000**	**40,999.5164**	**40,999.5164**	**1.7248**	**0.1804**	**41,096.3919**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/18/2018	4/18/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.1431	44.0770	73.8031	0.3051	22.1501	0.2103	22.3604	5.9267	0.1974	6.1240		31,113.3004	31,113.3004	1.4906		31,150.5659
Unmitigated	6.1431	44.0770	73.8031	0.3051	22.1501	0.2103	22.3604	5.9267	0.1974	6.1240		31,113.3004	31,113.3004	1.4906		31,150.5659

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.40	16.07	17.96	27,135	27,135
Single Family Housing	2,992.48	3,024.18	2710.35	10,103,508	10,103,508
Total	2,998.88	3,040.25	2,728.31	10,130,643	10,130,643

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
NaturalGas Unmitigated	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	26572.5	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
Total		**0.2866**	**2.4488**	**1.0421**	**0.0156**		**0.1980**	**0.1980**		**0.1980**	**0.1980**		**3,126.1820**	**3,126.1820**	**0.0599**	**0.0573**	**3,144.7593**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	26.5725	0.2866	2.4488	1.0421	0.0156		0.1980	0.1980		0.1980	0.1980		3,126.1820	3,126.1820	0.0599	0.0573	3,144.7593
Total		**0.2866**	**2.4488**	**1.0421**	**0.0156**		**0.1980**	**0.1980**		**0.1980**	**0.1980**		**3,126.1820**	**3,126.1820**	**0.0599**	**0.0573**	**3,144.7593**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	68.5644	5.5610	28.4482	0.0350		0.5696	0.5696		0.5696	0.5696	0.0000	6,760.0341	6,760.0341	0.1743	0.1231	6,801.0667
Unmitigated	68.5644	5.5610	28.4482	0.0350		0.5696	0.5696		0.5696	0.5696	0.0000	6,760.0341	6,760.0341	0.1743	0.1231	6,801.0667

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6154	5.2585	2.2377	0.0336		0.4252	0.4252		0.4252	0.4252	0.0000	6,712.9412	6,712.9412	0.1287	0.1231	6,752.8328
Landscaping	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**68.5644**	**5.5610**	**28.4482**	**0.0349**		**0.5696**	**0.5696**		**0.5696**	**0.5696**	**0.0000**	**6,760.0341**	**6,760.0341**	**0.1743**	**0.1231**	**6,801.0667**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.3496					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	61.8053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6154	5.2585	2.2377	0.0336		0.4252	0.4252		0.4252	0.4252	0.0000	6,712.9412	6,712.9412	0.1287	0.1231	6,752.8328
Landscaping	0.7942	0.3026	26.2106	1.3800e-003		0.1445	0.1445		0.1445	0.1445		47.0929	47.0929	0.0456		48.2339
Total	**68.5644**	**5.5610**	**28.4482**	**0.0349**		**0.5696**	**0.5696**		**0.5696**	**0.5696**	**0.0000**	**6,760.0341**	**6,760.0341**	**0.1743**	**0.1231**	**6,801.0667**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.6:

CALEEMOD OPERATIONS PHASE 1 & 2 EMISSIONS MODEL OUTPUTS

Canterwood Phase 1 & 2 (Operations)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.20	Acre	8.20	357,192.00	0
Single Family Housing	574.00	Dwelling Unit	149.98	5,650,456.00	1642

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot Acreage based on Site Plan, SF based on largest floor plan of 9,844 SF.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates from TIA by Urban Crossroads

Woodstoves - Gas Stoves Only.

Canterwood Phase 1 & 2 (Operations) - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	120.00	1.00
tblConstructionPhase	PhaseEndDate	9/14/2018	4/2/2018
tblFireplaces	NumberGas	487.90	574.00
tblFireplaces	NumberNoFireplace	57.40	0.00
tblFireplaces	NumberWood	28.70	0.00
tblLandUse	LandUseSquareFeet	1,033,200.00	5,650,456.00
tblLandUse	LotAcreage	186.36	149.98
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	18.00
tblVehicleTrips	ST_TR	22.75	1.96
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	16.74	2.19
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	0.78
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	28.70	0.00
tblWoodstoves	NumberNoncatalytic	28.70	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.1057	0.0714	0.7236	1.9000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545	0.0000	189.4893	189.4893	5.6100e-003	0.0000	189.6294
Maximum	**0.1057**	**0.0714**	**0.7236**	**1.9000e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**	**0.0000**	**189.4893**	**189.4893**	**5.6100e-003**	**0.0000**	**189.6294**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.1057	0.0714	0.7236	1.9000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545	0.0000	189.4893	189.4893	5.6100e-003	0.0000	189.6294
Maximum	**0.1057**	**0.0714**	**0.7236**	**1.9000e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**	**0.0000**	**189.4893**	**189.4893**	**5.6100e-003**	**0.0000**	**189.6294**

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

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	124.1363	10.0695	51.5112	0.0633		1.0314	1.0314		1.0314	1.0314	0.0000	12,240.5650	12,240.5650	0.3156	0.2229	12,314.8637
Energy	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
Mobile	9.4237	79.7559	115.2489	0.5084	40.0184	0.3838	40.4022	10.7077	0.3602	11.0679		51,910.8821	51,910.8821	2.7728		51,980.2017
Total	**134.0790**	**94.2595**	**168.6470**	**0.6000**	**40.0184**	**1.7737**	**41.7921**	**10.7077**	**1.7502**	**12.4578**	**0.0000**	**69,812.1046**	**69,812.1046**	**3.1969**	**0.3266**	**69,989.3614**

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	124.1363	10.0695	51.5112	0.0633		1.0314	1.0314		1.0314	1.0314	0.0000	12,240.5650	12,240.5650	0.3156	0.2229	12,314.8637
Energy	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
Mobile	9.4237	79.7559	115.2489	0.5084	40.0184	0.3838	40.4022	10.7077	0.3602	11.0679		51,910.8821	51,910.8821	2.7728		51,980.2017
Total	**134.0790**	**94.2595**	**168.6470**	**0.6000**	**40.0184**	**1.7737**	**41.7921**	**10.7077**	**1.7502**	**12.4578**	**0.0000**	**69,812.1046**	**69,812.1046**	**3.1969**	**0.3266**	**69,989.3614**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2018	4/2/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1057	0.0714	0.7236	1.9000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		189.4893	189.4893	5.6100e-003		189.6294
Total	**0.1057**	**0.0714**	**0.7236**	**1.9000e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**		**189.4893**	**189.4893**	**5.6100e-003**		**189.6294**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1057	0.0714	0.7236	1.9000e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		189.4893	189.4893	5.6100e-003		189.6294
Total	**0.1057**	**0.0714**	**0.7236**	**1.9000e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**		**189.4893**	**189.4893**	**5.6100e-003**		**189.6294**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4237	79.7559	115.2489	0.5084	40.0184	0.3838	40.4022	10.7077	0.3602	11.0679		51,910.8821	51,910.8821	2.7728		51,980.2017
Unmitigated	9.4237	79.7559	115.2489	0.5084	40.0184	0.3838	40.4022	10.7077	0.3602	11.0679		51,910.8821	51,910.8821	2.7728		51,980.2017

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.40	16.07	17.96	27,135	27,135
Single Family Housing	5,418.56	5,475.96	4907.70	18,294,680	18,294,680
Total	5,424.96	5,492.03	4,925.66	18,321,815	18,321,815

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
NaturalGas Unmitigated	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	48115.6	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
Total		**0.5189**	**4.4342**	**1.8869**	**0.0283**		**0.3585**	**0.3585**		**0.3585**	**0.3585**		**5,660.6576**	**5,660.6576**	**0.1085**	**0.1038**	**5,694.2960**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	48.1156	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
Total		**0.5189**	**4.4342**	**1.8869**	**0.0283**		**0.3585**	**0.3585**		**0.3585**	**0.3585**		**5,660.6576**	**5,660.6576**	**0.1085**	**0.1038**	**5,694.2960**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	124.1363	10.0695	51.5112	0.0633		1.0314	1.0314		1.0314	1.0314	0.0000	12,240.5650	12,240.5650	0.3156	0.2229	12,314.8637
Unmitigated	124.1363	10.0695	51.5112	0.0633		1.0314	1.0314		1.0314	1.0314	0.0000	12,240.5650	12,240.5650	0.3156	0.2229	12,314.8637

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	9.6867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	111.8974					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1142	9.5217	4.0518	0.0608		0.7698	0.7698		0.7698	0.7698	0.0000	12,155.2941	12,155.2941	0.2330	0.2229	12,227.5270
Landscaping	1.4380	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616		85.2708	85.2708	0.0826		87.3367
Total	**124.1364**	**10.0695**	**51.5112**	**0.0633**		**1.0315**	**1.0315**		**1.0315**	**1.0315**	**0.0000**	**12,240.5650**	**12,240.5650**	**0.3156**	**0.2229**	**12,314.8637**

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	9.6867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	111.8974					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1142	9.5217	4.0518	0.0608		0.7698	0.7698		0.7698	0.7698	0.0000	12,155.2941	12,155.2941	0.2330	0.2229	12,227.5270
Landscaping	1.4380	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616		85.2708	85.2708	0.0826		87.3367
Total	**124.1364**	**10.0695**	**51.5112**	**0.0633**		**1.0315**	**1.0315**		**1.0315**	**1.0315**	**0.0000**	**12,240.5650**	**12,240.5650**	**0.3156**	**0.2229**	**12,314.8637**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Canterwood Phase 1 & 2 (Operations)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.20	Acre	8.20	357,192.00	0
Single Family Housing	574.00	Dwelling Unit	149.98	5,650,456.00	1642

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot Acreage based on Site Plan, SF based on largest floor plan of 9,844 SF.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates from TIA by Urban Crossroads

Woodstoves - Gas Stoves Only.

Canterwood Phase 1 & 2 (Operations) - Riverside-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	120.00	1.00
tblConstructionPhase	PhaseEndDate	9/14/2018	4/2/2018
tblFireplaces	NumberGas	487.90	574.00
tblFireplaces	NumberNoFireplace	57.40	0.00
tblFireplaces	NumberWood	28.70	0.00
tblLandUse	LandUseSquareFeet	1,033,200.00	5,650,456.00
tblLandUse	LotAcreage	186.36	149.98
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	18.00
tblVehicleTrips	ST_TR	22.75	1.96
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	16.74	2.19
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	0.78
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	28.70	0.00
tblWoodstoves	NumberNoncatalytic	28.70	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.1084	0.0689	0.8902	2.1200e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545	0.0000	211.1889	211.1889	6.4300e-003	0.0000	211.3496
Maximum	**0.1084**	**0.0689**	**0.8902**	**2.1200e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**	**0.0000**	**211.1889**	**211.1889**	**6.4300e-003**	**0.0000**	**211.3496**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	0.1084	0.0689	0.8902	2.1200e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545	0.0000	211.1889	211.1889	6.4300e-003	0.0000	211.3496
Maximum	**0.1084**	**0.0689**	**0.8902**	**2.1200e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**	**0.0000**	**211.1889**	**211.1889**	**6.4300e-003**	**0.0000**	**211.3496**

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

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	124.1363	10.0695	51.5112	0.0633		1.0314	1.0314		1.0314	1.0314	0.0000	12,240.5650	12,240.5650	0.3156	0.2229	12,314.8637
Energy	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
Mobile	11.0956	79.6152	133.3306	0.5512	40.0184	0.3800	40.3984	10.7077	0.3566	11.0642		56,209.4133	56,209.4133	2.6925		56,276.7268
Total	**135.7508**	**94.1189**	**186.7287**	**0.6428**	**40.0184**	**1.7699**	**41.7884**	**10.7077**	**1.7465**	**12.4542**	**0.0000**	**74,110.6358**	**74,110.6358**	**3.1167**	**0.3266**	**74,285.8865**

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	124.1363	10.0695	51.5112	0.0633		1.0314	1.0314		1.0314	1.0314	0.0000	12,240.5650	12,240.5650	0.3156	0.2229	12,314.8637
Energy	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
Mobile	11.0956	79.6152	133.3306	0.5512	40.0184	0.3800	40.3984	10.7077	0.3566	11.0642		56,209.4133	56,209.4133	2.6925		56,276.7268
Total	**135.7508**	**94.1189**	**186.7287**	**0.6428**	**40.0184**	**1.7699**	**41.7884**	**10.7077**	**1.7465**	**12.4542**	**0.0000**	**74,110.6358**	**74,110.6358**	**3.1167**	**0.3266**	**74,285.8865**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2018	4/2/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1084	0.0689	0.8902	2.1200e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		211.1889	211.1889	6.4300e-003		211.3496
Total	**0.1084**	**0.0689**	**0.8902**	**2.1200e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**		**211.1889**	**211.1889**	**6.4300e-003**		**211.3496**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1084	0.0689	0.8902	2.1200e-003	0.2012	1.2600e-003	0.2025	0.0534	1.1600e-003	0.0545		211.1889	211.1889	6.4300e-003		211.3496
Total	**0.1084**	**0.0689**	**0.8902**	**2.1200e-003**	**0.2012**	**1.2600e-003**	**0.2025**	**0.0534**	**1.1600e-003**	**0.0545**		**211.1889**	**211.1889**	**6.4300e-003**		**211.3496**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	11.0956	79.6152	133.3306	0.5512	40.0184	0.3800	40.3984	10.7077	0.3566	11.0642		56,209.4133	56,209.4133	2.6925		56,276.7268
Unmitigated	11.0956	79.6152	133.3306	0.5512	40.0184	0.3800	40.3984	10.7077	0.3566	11.0642		56,209.4133	56,209.4133	2.6925		56,276.7268

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6.40	16.07	17.96	27,135	27,135
Single Family Housing	5,418.56	5,475.96	4907.70	18,294,680	18,294,680
Total	5,424.96	5,492.03	4,925.66	18,321,815	18,321,815

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Single Family Housing	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
NaturalGas Unmitigated	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	48115.6	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
Total		**0.5189**	**4.4342**	**1.8869**	**0.0283**		**0.3585**	**0.3585**		**0.3585**	**0.3585**		**5,660.6576**	**5,660.6576**	**0.1085**	**0.1038**	**5,694.2960**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	48.1156	0.5189	4.4342	1.8869	0.0283		0.3585	0.3585		0.3585	0.3585		5,660.6576	5,660.6576	0.1085	0.1038	5,694.2960
Total		**0.5189**	**4.4342**	**1.8869**	**0.0283**		**0.3585**	**0.3585**		**0.3585**	**0.3585**		**5,660.6576**	**5,660.6576**	**0.1085**	**0.1038**	**5,694.2960**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	124.1363	10.0695	51.5112	0.0633		1.0314	1.0314		1.0314	1.0314	0.0000	12,240.5650	12,240.5650	0.3156	0.2229	12,314.8637
Unmitigated	124.1363	10.0695	51.5112	0.0633		1.0314	1.0314		1.0314	1.0314	0.0000	12,240.5650	12,240.5650	0.3156	0.2229	12,314.8637

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	9.6867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	111.8974					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1142	9.5217	4.0518	0.0608		0.7698	0.7698		0.7698	0.7698	0.0000	12,155.2941	12,155.2941	0.2330	0.2229	12,227.5270
Landscaping	1.4380	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616		85.2708	85.2708	0.0826		87.3367
Total	**124.1364**	**10.0695**	**51.5112**	**0.0633**		**1.0315**	**1.0315**		**1.0315**	**1.0315**	**0.0000**	**12,240.5650**	**12,240.5650**	**0.3156**	**0.2229**	**12,314.8637**

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	9.6867					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	111.8974					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.1142	9.5217	4.0518	0.0608		0.7698	0.7698		0.7698	0.7698	0.0000	12,155.2941	12,155.2941	0.2330	0.2229	12,227.5270
Landscaping	1.4380	0.5478	47.4595	2.5000e-003		0.2616	0.2616		0.2616	0.2616		85.2708	85.2708	0.0826		87.3367
Total	**124.1364**	**10.0695**	**51.5112**	**0.0633**		**1.0315**	**1.0315**		**1.0315**	**1.0315**	**0.0000**	**12,240.5650**	**12,240.5650**	**0.3156**	**0.2229**	**12,314.8637**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation