



Meredith International Centre Specific Plan Amendment AIR QUALITY IMPACT ANALYSIS CITY OF ONTARIO

PREPARED BY:

Haseeb Qureshi, MES
hqureshi@urbanxroads.com
(949) 660-1994 x217

Stephen Abille
sabile@urbanxroads.com
(949) 660-1994 x234

JANUARY 21, 2015

09034-07 AQ Report

TABLE OF CONTENTS

TABLE OF CONTENTS	I
APPENDICES	II
LIST OF EXHIBITS	III
LIST OF TABLES	III
LIST OF ABBREVIATED TERMS	IV
EXECUTIVE SUMMARY	1
1 INTRODUCTION	3
1.1 Site Location.....	3
1.2 Study Area.....	4
1.3 Project Description.....	4
1.4 Project Design Features	10
2 AIR QUALITY SETTING	11
2.1 South Coast Air Basin	11
2.2 Regional Climate	11
2.3 Wind Patterns and Project Location	13
2.4 Existing Air Quality	13
2.5 Regional Air Quality	15
2.6 Local Air Quality	15
2.7 Regulatory Background.....	21
2.8 Regional Air Quality Improvement	23
2.9 Existing Project Site Air Quality Conditions	32
3 PROJECT AIR QUALITY IMPACT	33
3.1 Introduction	33
3.2 Standards of Significance	33
3.3 California Emissions Estimator Model™ Employed to Estimate AQ Emissions	34
3.4 Construction Emissions.....	34
3.5 Operational Emissions	39
3.6 Localized Significance - Construction Activity.....	50
3.7 Localized Significance – Long-Term Operational Activity	57
3.8 CO “Hot Spot” Analysis	58
3.9 Air Quality Management Planning.....	60
3.10 Potential Impacts to Sensitive Receptors	62
3.11 Odors.....	62
4 FINDINGS & CONCLUSIONS	63
4.1 Construction-Source Emissions.....	63
4.2 Operational-Source Emissions	63
4.3 Construction-Source Air Pollutant Emissions Mitigation Measures.....	64
4.4 Operational-Source Air Pollutant Emissions Mitigation Measures.....	65
5 REFERENCES	67
6 CERTIFICATION	69

APPENDICES

APPENDIX 3.1: CALEEMOD EMISSIONS MODEL OUTPUTS

APPENDIX 3.2: STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

APPENDIX 3.3 SCREEN3 INPUTS/OUTPUTS

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP	3
EXHIBIT 1-B: EXISTING LAND USES	6
EXHIBIT 1-C: PLANNING AREAS	7
EXHIBIT 1-D: SITE PLAN (OPTION A)	8
EXHIBIT 1-E: SITE PLAN (OPTION B)	9
EXHIBIT 3-A: SENSITIVE RECEPTOR LOCATIONS	53

LIST OF TABLES

TABLE 2-1: AMBIENT AIR QUALITY STANDARDS	14
TABLE 2-2: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SOUTH COAST AIR BASIN (SCAB)	16
TABLE 2-3: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2011-2013.....	17
TABLE 2-4: SOUTH COAST AIR BASIN OZONE TREND.....	25
TABLE 2-5: SOUTH COAST AIR BASIN PM ₁₀ TREND	25
TABLE 2-6: SOUTH COAST AIR BASIN PM _{2.5} TREND	26
TABLE 2-7: SOUTH COAST AIR BASIN CARBON MONOXIDE TREND.....	26
TABLE 2-8: SOUTH COAST AIR BASIN NITROGEN DIOXIDE TREND	28
TABLE 2-9: COMPARISON OF CALIFORNIA HHDT DPM EMISSIONS CONTROL PROGRAMS.....	30
TABLE 2-10: DIESEL PARTICULATE MATTER ANNUAL AVERAGE CONCENTRATION	30
TABLE 2-11: ANNUAL AVERAGE BASIN CANCER RISK	31
TABLE 2-12: EXISTING LAND USE EMISSIONS SUMMARY	32
TABLE 3-1: MAXIMUM DAILY EMISSIONS THRESHOLDS.....	33
TABLE 3-2: PLANNING AREA 1 CONSTRUCTION DURATION.....	35
TABLE 3-3: PLANNING AREA 2 CONSTRUCTION DURATION.....	35
TABLE 3-4: PLANNING AREA 3 CONSTRUCTION DURATION.....	35
TABLE 3-5: PLANNING AREA 4 CONSTRUCTION DURATION.....	35
TABLE 3-6: PHASE 1 CONSTRUCTION EQUIPMENT ASSUMPTIONS.....	36
TABLE 3-7: PHASE 2, 3, 4 CONSTRUCTION EQUIPMENT ASSUMPTIONS	37
TABLE 3-8: EMISSIONS SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION)	38
TABLE 3-9: EMISSIONS SUMMARY OF CONSTRUCTION (WITH MITIGATION)	38
TABLE 3-10: SUMMARY OF YEAR 2017 PEAK OPERATIONAL EMISSIONS (WITHOUT MITIGATION)	45
TABLE 3-11: SUMMARY OF YEAR 2020 PEAK OPERATIONAL EMISSIONS (WITHOUT MITIGATION)	46
TABLE 3-12: SUMMARY OF YEAR 2017 PEAK OPERATIONAL EMISSIONS (WITH MITIGATION)	48
TABLE 3-13: SUMMARY OF YEAR 2020 PEAK OPERATIONAL EMISSIONS (WITH MITIGATION)	49
TABLE 3-14 MAXIMUM DAILY DISTURBED-ACREAGE	54
TABLE 3-15 LOCALIZED SIGNIFICANCE SUMMARY GRADING (WITHOUT MITIGATION).....	56
TABLE 3-16 LOCALIZED SIGNIFICANCE SUMMARY GRADING (WITH MITIGATION)	56
TABLE 3-17 LOCALIZED SIGNIFICANCE SUMMARY OPERATIONS (WITHOUT MITIGATION)	58
TABLE 3-18 LOCALIZED SIGNIFICANCE SUMMARY OPERATIONS (WITH MITIGATION)	58
TABLE 3-19 PROJECT PEAK HOUR TRAFFIC VOLUMES	59

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
BMPs	Best Management Practices
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
MMs	Mitigation Measures
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	Meredith International Centre Specific Plan Amendment
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

This page intentionally left blank

EXECUTIVE SUMMARY

CONSTRUCTION-SOURCE EMISSIONS

REGIONAL IMPACTS

For regional emissions, the Project will exceed the numerical thresholds of significance established by the South Coast Air Quality Management District (SCAQMD) for emissions of Volatile Organic Compounds (VOCs), Nitrogen Oxides (NO_x), Carbon monoxide (CO), and Ultra-Fine Particulates (PM_{2.5}) prior to implementation of applicable mitigation measures (MMs).

The proposed mitigation measures MM AQ-1 through MM AQ-4 are recommended to reduce the severity of the impacts. After implementation of MM AQ-1 through MM AQ-4, construction activity emissions will exceed the numerical thresholds established by the SCAQMD for emissions of VOCs, NO_x, and CO. Notwithstanding, no feasible mitigation measures exist that would reduce these emissions to levels that are less than the aforementioned numeric thresholds.

LOCALIZED IMPACTS

Without MMs, emissions during construction activity will exceed the SCAQMD's localized significance threshold for emissions of PM 10 only. After implementation of MM AQ-1 through MM AQ-4 the emissions resulting from short-term construction activity will not exceed the SCAQMD's localized significance threshold for any criteria pollutant. Therefore, a less than significant impact would occur with implementation of MM AQ-1 through MM AQ-4.

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 would exceed the numerical thresholds of significance established by the SCAQMD for emissions of VOCs, NO_x, CO, PM10, and PM2.5. No feasible mitigation measures exist that would reduce these emissions to levels that are less-than-significant. Thus a significant impact would occur even with implementation of the proposed mitigation measure (MM AQ-5). Project operational-source VOCs, NO_x, CO, PM10, and PM2.5 emissions exceedances of applicable SCAQMD regional thresholds are therefore 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.

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 refuse. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances (40). Consistent with City 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 the proposed Meredith International Centre Specific Plan Amendment (“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 regulatory thresholds.

1.1 SITE LOCATION

The proposed Meredith International Centre Specific Plan Amendment development is located north of the Interstate 10 (I-10) Freeway and east of Vineyard Avenue in the City of Ontario as shown on Exhibit 1-A. Existing land uses within the Project site include a commercial plaza in the eastern portion of the site, west of Archibald Avenue, and the Bernt Elementary School in the northern portion of the site, south of 4th Street.

EXHIBIT 1-A: LOCATION MAP



1.2 STUDY AREA

The Project study area includes single-family and multi-family residential uses located to the west of the Project site, across Vineyard Avenue, as well as neighborhood commercial uses and a construction equipment rental center. Land uses north of the Project site, across 4th Street, include a mix of residential, commercial, and industrial developments. San Bernardino County Flood Control basins are located north/northeast of the site. Commercial uses and the Cucamonga-Guasti Regional Park are located to the east of the Project site, across Archibald Avenue. The I-10 freeway is directly south of the Project site, and the Los Angeles/Ontario International Airport (ONT) is located approximately three-quarter miles south of the Project site. Existing surrounding land uses are graphically presented on Exhibit 1-B.

1.3 PROJECT DESCRIPTION

The Meredith International Centre Specific Plan Amendment (Meredith SPA, Specific Plan Amendment, SPA) proposes a mix of industrial, commercial, and residential land uses within five planning areas. The Planning Areas (PA) and associated land uses are discussed below, and presented graphically in Exhibit 1-C.

Planning Area 1 (PA 1) encompasses approximately 146.6 acres in the northwesterly corner of the Project site and is the largest of the Planning Areas. Uses allowed within this Planning Area would include general light industrial and warehouse/distribution operations. The Specific Plan Amendment allows two build-out scenarios within Planning Area 1: Option A assumes removal/demolition of the Bernt School, and development of the former school site as an industrial land use within the Specific Plan Area. Option B assumes continued operations of the Bernt School in its present location, in which case, screening of the School site and buffering of effects of adjacent industrial land uses would be accomplished as reflected in the Meredith SPA. The Option A and Option B site plans for PA 1 are shown on Exhibits 1-D and 1-E, respectively. For the purposes of this analysis, it is assumed that Planning Area 1 will be constructed and occupied by 2017.

At the time this air quality analysis was prepared, the future specific industrial tenants of Planning Area 1 were unknown. For the purposes of this analysis, Planning Area 1 tenants are assumed to include permitted, conditionally permitted, and ancillary uses described under the SPA's Industrial land use designation, and listed at SPA Table 5-1, *Permitted, Conditional, and Ancillary Uses*.

Planning Area 2 (PA 2) encompasses approximately 43.7 area located in the southwestern portion of the Specific Plan Area. Planning Area 2 is bordered on the north by Inland Empire Boulevard, on the south by the I-10 Freeway, on the west by North Vineyard Avenue, and on the east by the Cucamonga Creek Channel. The Urban Commercial designation of Planning Area 2 allows for a range of commercial uses that benefit from the property's adjacency to the I-10 Freeway and the ONT Airport. Permitted, conditionally permitted, and ancillary uses within the Urban Commercial designation are listed at SPA 5-1, *Permitted, Conditional, and Ancillary Uses*. Planning Area 2 is designed as a highly active area offering a variety of market-driven commercial uses such as retail and fast food restaurants. Up to 200 overnight lodging rooms

also are permitted in Planning Area 2, with the intention of serving the surrounding community and region, such as visitors to the nearby Ontario Convention Center and the ONT Airport. For the purposes of this analysis, it is assumed that PA 2 would be constructed and occupied by 2020.

Planning Area 3 (PA 3) comprises approximately 25.3 acres located in the southeastern portion of the Specific Plan Area. As shown in Exhibit 1-C, Planning Area 3 is bordered on the north by Inland Empire Boulevard, on the south by the I-10 Freeway, on the west by the Deer Creek Channel, and on the east by Archibald Avenue. Similar to Planning Area 2, the Urban Commercial designation of Planning Area 3 allows for a range of commercial uses that benefit from proximity to transportation corridors. Located closer to the SPA's proposed Urban Residential area (within Planning Area 4), and to the potential alignment of the Gold Line transit corridor, Planning Area 3 is envisioned to offer smaller, pedestrian-oriented retail uses. Up to 400 overnight lodging rooms are also permitted in Planning Area 3. Similar to PA 2, specific tenants were unknown at the time of this analysis. For the purposes of this analysis, it is assumed that PA 3 would be constructed and occupied by 2020.

Planning Area 4 (PA 4) comprises approximately 21.4 acres located in the southeastern portion of the Specific Plan area, and would contain Urban Residential uses. As shown in Exhibit 1-B, this area is bordered on the north by San Bernardino County Flood Control District (SBFCD) facilities, on the south by Inland Empire Boulevard, on the west by the Deer Creek Channel, and on the east by Planning Area 5. The Urban Residential designation of Planning Area 4 allows for high-density and medium-high density residential land uses (for-sale or for-rent multi-family residential units). Urban Residential uses implemented under the SPA would be within walking distance to a variety of shopping and employment opportunities, Cucamonga-Guasti Regional Park, and the potential Gold Line transit corridor. For the purposes of this analysis, it is assumed that Planning Area 4 would be constructed and occupied by 2020.

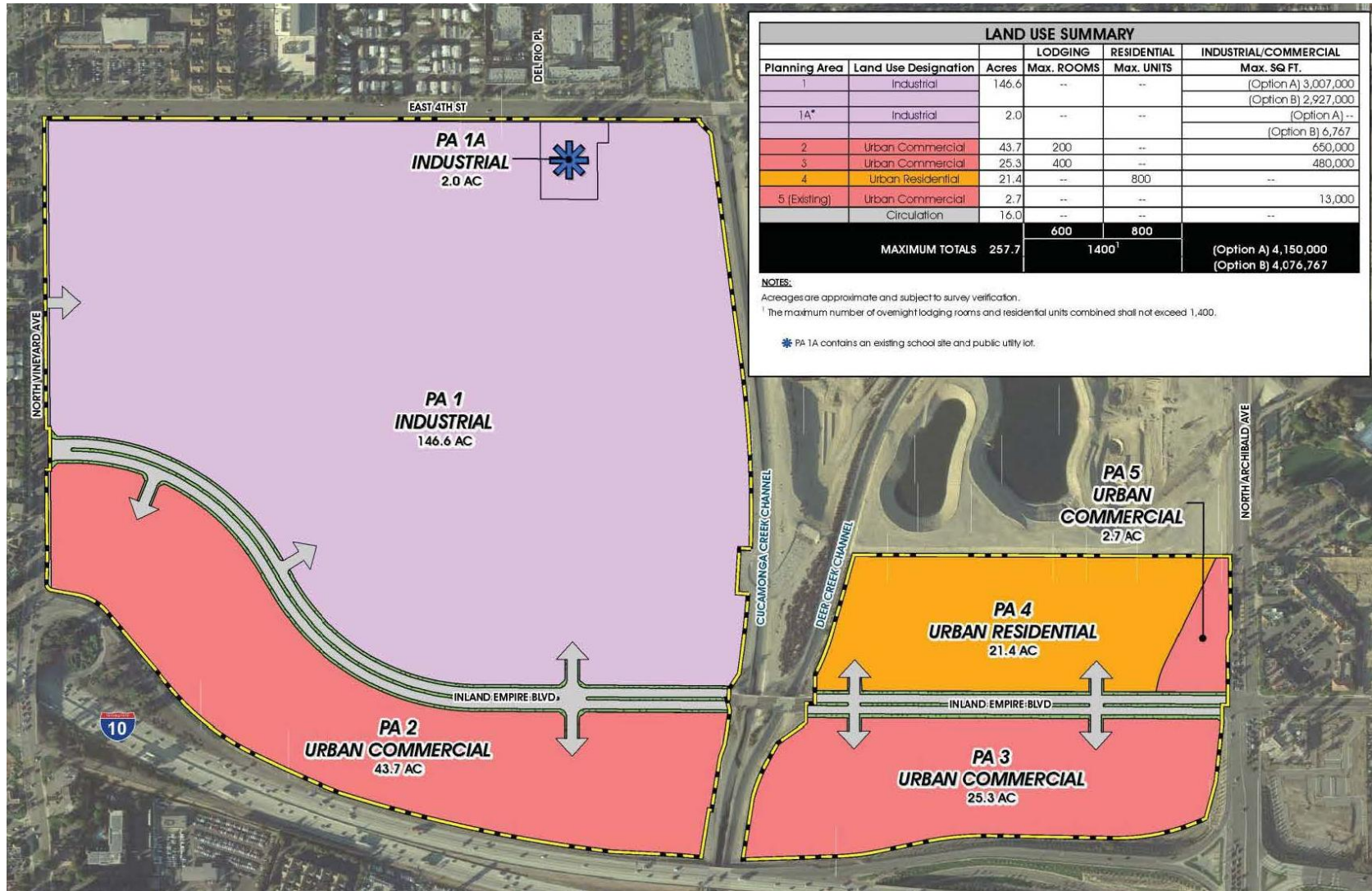
Planning Area 5 (PA 5) encompasses 2.7 acres and is located at the northwest corner of Archibald Avenue and Inland Empire Boulevard. The site is currently developed with retail and service commercial uses, including fast food restaurants, a convenience store, and a self-serve fueling station. For the purposes of this analysis, PA 5 is considered to be fully developed and generating quantifiable emissions as shown in Section 2.9.

EXHIBIT 1-B: EXISTING LAND USES



Source: Figure 3.3-1, Applied Planning, Inc.

EXHIBIT 1-C: PLANNING AREAS



Source: Figure 3.4-1, Applied Planning, Inc.

EXHIBIT 1-D: SITE PLAN (OPTION A)

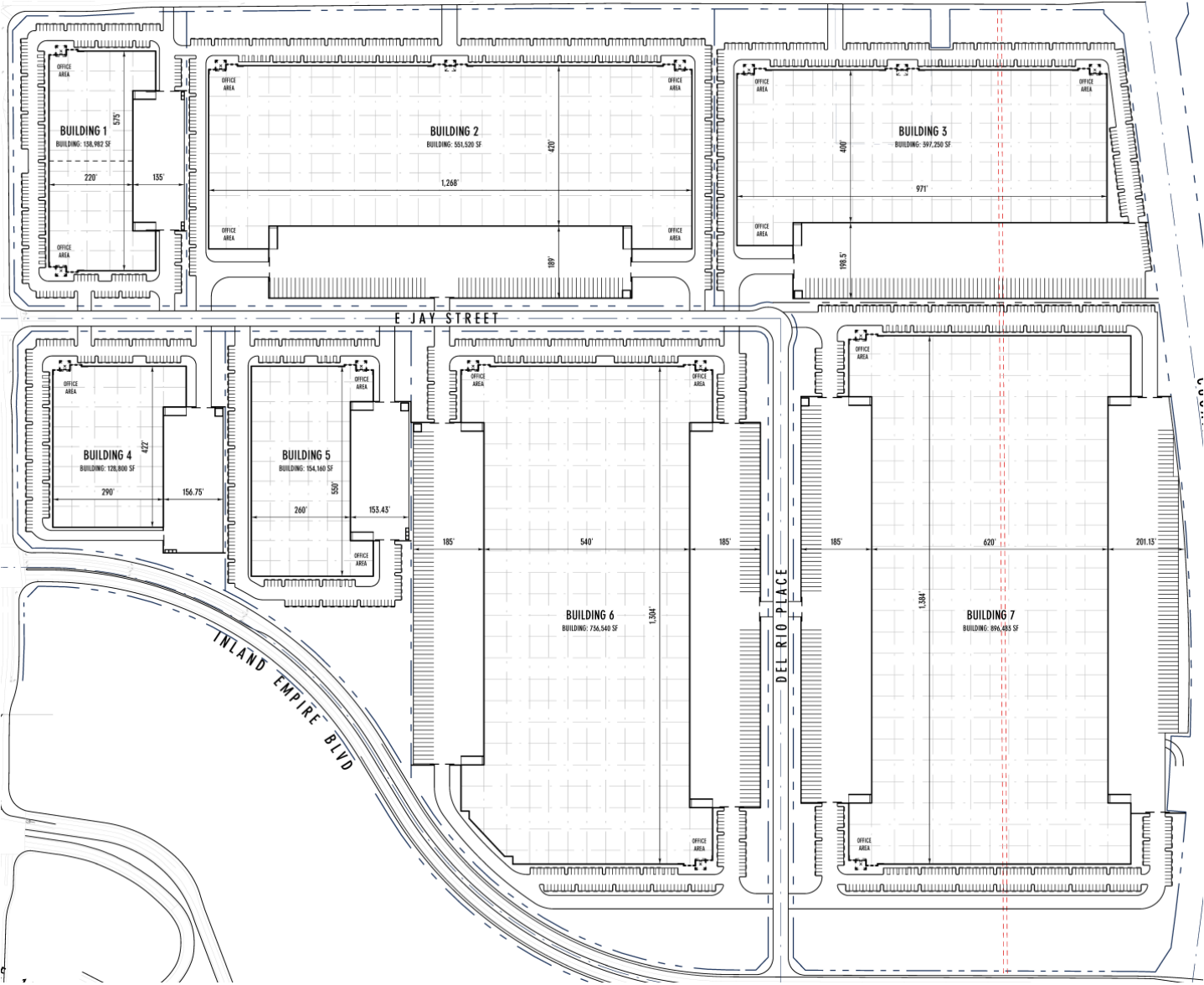
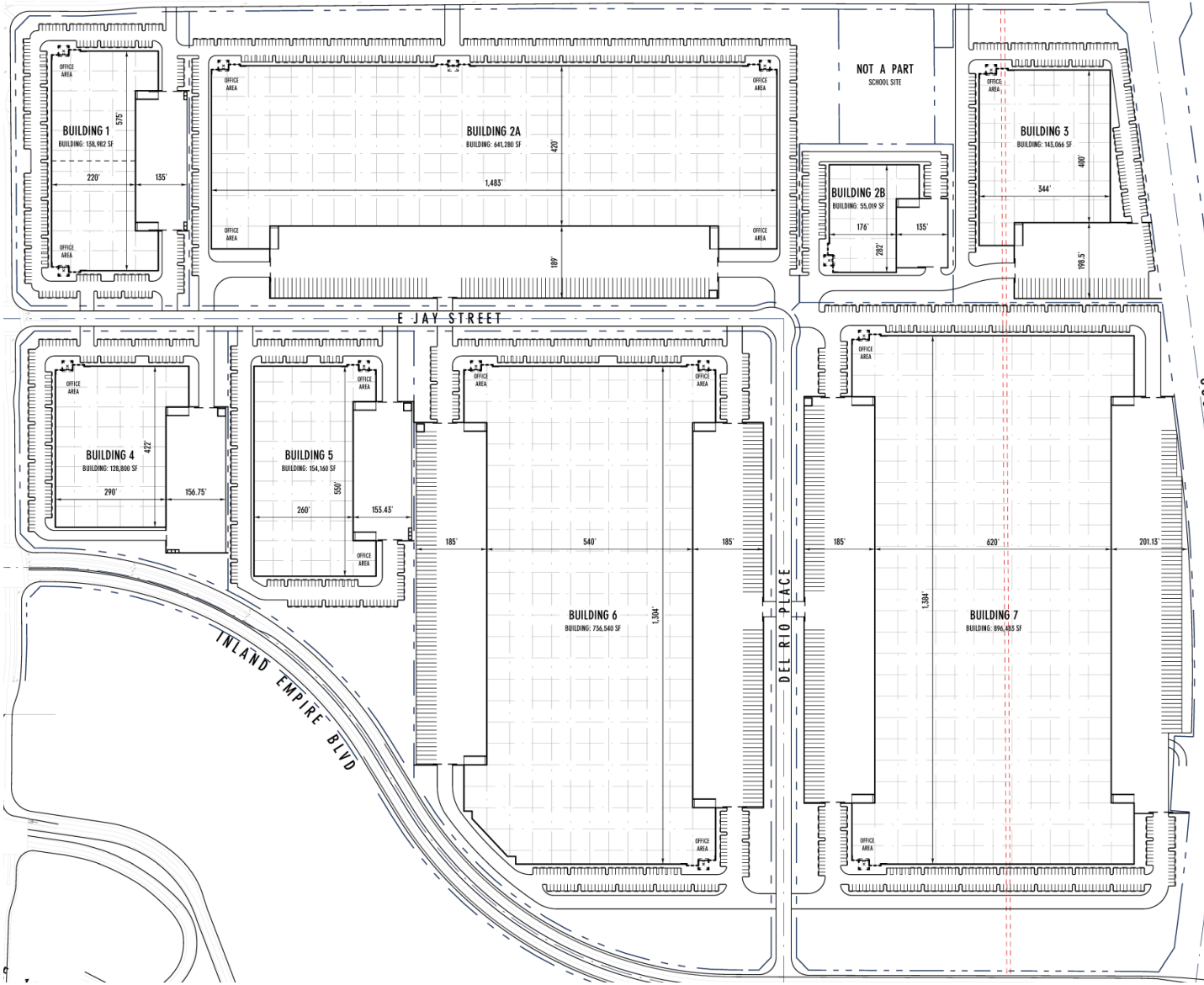


EXHIBIT 1-E: SITE PLAN (OPTION B)



1.4 PROJECT DESIGN FEATURES

Energy-saving and sustainable design features and operational programs would be incorporated into all facilities developed pursuant to the Meredith SPA. Planning Areas 1 through 4 would provide sustainable design features necessary to achieve a “Certified” rating under the United States Green Building Council’s Leadership in Energy & Environmental Design (LEED) programs. The Project also incorporates and expresses the following design features and attributes promoting energy efficiency and sustainability. Because these features/attributes are integral to the Project, and/or are regulatory requirements, they are not considered to be mitigation measures.

- Industrial land uses within the Specific Plan would incorporate the use of solar panels, providing a minimum of 1,600,000 kWh per year of electricity generation, for use within the office portions of industrial buildings;
- All on-site cargo handling equipment (CHE) would be powered by non-diesel fueled engines (e.g., electric or natural gas).
- Regional vehicle miles traveled (VMT) and associated vehicular-source emissions are reduced by the following Project design features/attributes:
 - Pedestrian connections shall be provided to surrounding areas consistent with the City’s General Plan. Providing a pedestrian access network to link areas of the Project site encourages people to walk instead of drive. The Project would provide a pedestrian access network that internally links all uses and connects to all existing or planned external streets and pedestrian facilities contiguous with the project site. The Project would minimize barriers to pedestrian access and interconnectivity
 - The Project’s mixed-use configuration and proposed collocation of Industrial, Urban Commercial and Urban Residential land uses together with supporting amenities would tend to decrease the propensity for, and length of commuter vehicle travel.
- To reduce water demands and associated energy use, subsequent development proposals within the Project site would be required to implement a Water Conservation Strategy and demonstrate a minimum 20% reduction in indoor water usage when compared to baseline water demand (total expected water demand without implementation of the Water Conservation Strategy)¹. Development proposals within the Specific Plan Area would also be required to implement the following:
 - Landscaping palette emphasizing drought tolerant plants consistent with provisions of the Meredith SPA and/or City requirements;
 - Use of water-efficient irrigation techniques consistent with provisions of the Meredith SPA and/or City requirements;
 - U.S. Environmental Protection Agency (EPA) Certified WaterSense labeled or equivalent faucets, high-efficiency toilets (HETs), and water-conserving shower heads.

¹ Reduction of 20% indoor water usage is consistent with the current CalGreen Code performance standards for residential and non-residential land uses. Per CalGreen, the reduction shall be based on the maximum allowable water use per plumbing fixture and fittings as required by the California Building Standards Code.

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 (1). 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 1/2 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 NOX 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, as well health effects of each pollutant regulated under these standards are shown in Table 2-1 (2)(3).

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. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O₃, CO, SO₂, NO₂, PM₁₀, and PM_{2.5} are not equaled or exceeded at any time in any consecutive three-year period; and the federal standards (other than O₃, PM₁₀, PM_{2.5}, and those based on annual averages or arithmetic mean) are not exceeded more than once per year. The O₃ standard is attained when the fourth highest eight-hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM₁₀, the 24 hour standard is attained when 99 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.

TABLE 2-1: 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)	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)		0.075 ppm (147 µg/m ³)		
Respirable Particulate Matter (PM10) ⁸	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) ⁸	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		
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) ⁹	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) ¹⁰	1 Hour	0.25 ppm (655 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	—	Ultraviolet Fluorescence; 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) ¹⁰	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) ¹⁰	—	
Lead ^{11,12}	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 ¹³	8 Hour	See footnote 13	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 ¹¹	24 Hour	0.01 ppm (26 µg/m ³)	Gas Chromatography			

See footnotes at: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>

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

California Air Resources Board (6/4/13)

2.5 REGIONAL AIR QUALITY

The SCAQMD monitors levels of various criteria pollutants at 30 monitoring stations throughout the air district. In 2013, the federal and state ambient air quality standards (NAAQS and CAAQS) were exceeded on one or more days for ozone, PM₁₀, and PM_{2.5} at most monitoring locations (4). No areas of the SCAB exceeded federal or state standards for NO₂, SO₂, CO, sulfates or lead. See Table 2-2 for attainment designations for the SCAB (5)(6). Appendix 3.2 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

2.6 LOCAL AIR QUALITY

Relative to the Project site, the nearest long-term air quality monitoring site for Ozone (O₃), Carbon Monoxide (CO), and Nitrogen Dioxide (NO₂) is the South Coast Air Quality Management District Northwest San Bernardino Valley monitoring station, located approximately 2.25 miles northwest of the Project site in San Bernardino (SRA 32) (7). Relative to the Project site, the nearest long-term air quality monitoring site for Inhalable Particulates (PM₁₀) and Ultra-Fine Particulates (PM_{2.5}) is the South Coast Air Quality Management District Southwest San Bernardino Valley monitoring station, located approximately 2.25 miles south of the Project site in San Bernardino (SRA 33)

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 (4) (8). Additionally, data for SO₂ has been omitted as attainment is regularly met in the South Coast Air Basin and few monitoring stations measure SO₂ concentrations.

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:

- 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.
- Sulfur Dioxide (SO₂): 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 SO₂ oxidizes in the atmosphere, it forms sulfates (SO₄). Collectively, these pollutants are referred to as sulfur oxides (SOX).

Nitrogen Oxides (Oxides of Nitrogen, or NO_x): Nitrogen oxides (NO_x) consist of nitric oxide (NO), nitrogen dioxide (NO₂) and nitrous oxide (N₂O) and are formed when nitrogen (N₂) combines with oxygen (O₂). 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. NO₂ 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, NO₂ is the most abundant in the atmosphere. As

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	No Standard
Ozone - 8 hour standard	Nonattainment	Nonattainment
PM ₁₀	Nonattainment	Attainment
PM _{2.5}	Nonattainment	Nonattainment
Carbon Monoxide	Attainment	Attainment
Nitrogen Dioxide	Attainment	Unclassified/Attainment
Sulfur Dioxide	Attainment	Attainment
Lead ²	Attainment	Attainment

Source: State/Federal designations were taken from <http://www.arb.ca.gov/degis/adm/adm.htm>

Note: See Appendix 3.2 for a detailed map of State/National Area Designations within the South Coast Air Basin

² 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 2011-2013³

POLLUTANT	STANDARD	YEAR		
		2011	2012	2013
Ozone (O ₃)				
Maximum 1-Hour Concentration (ppm)		0.145	0.136	0.143
Maximum 8-Hour Concentration (ppm)		0.122	0.111	0.111
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	36	42	--
Number of Days Exceeding State 8-Hour Standard	> 0.07 ppm	45	66	--
Number of Days Exceeding Federal 1-Hour Standard	> 0.12 ppm	5	4	3
Number of Days Exceeding Federal 8-Hour Standard	> 0.075 ppm	36	45	27
Number of Days Exceeding Health Advisory	≥ 0.15 ppm	0	0	0
Carbon Monoxide (CO)				
Maximum 1-Hour Concentration (ppm)		--	--	3.0
Maximum 8-Hour Concentration (ppm)		1.3	1.1	1.1
Number of Days Exceeding State 1-Hour Standard	> 20 ppm	--	--	0
Number of Days Exceeding Federal / State 8-Hour Standard	> 9.0 ppm	0	0	0
Number of Days Exceeding Federal 1-Hour Standard	> 35 ppm	0	0	0
Nitrogen Dioxide (NO ₂)				
Maximum 1-Hour Concentration (ppm)		0.069	0.067	0.052
Annual Arithmetic Mean Concentration (ppm)		0.020	0.020	--
Number of Days Exceeding State 1-Hour Standard	> 0.18 ppm	0	0	0
Particulate Matter ≤ 10 Microns (PM ₁₀)				
Maximum 24-Hour Concentration (µg/m ³)		70	57	60
Number of Samples		60	61	117
Number of Samples Exceeding State Standard	> 50 µg/m ³	3	4	--
Number of Samples Exceeding Federal Standard	> 150 µg/m ³	0	0	0
Particulate Matter ≤ 2.5 Microns (PM _{2.5})				
Maximum 24-Hour Concentration (µg/m ³)		52.9	35.2	29.8
Annual Arithmetic Mean (µg/m ³)		13.2	12.4	13.4
Number of Samples Exceeding Federal 24-Hour Standard	> 35 µg/m ³	119	120	27

-- = data not available from either SCAQMD or EPA

³ O₃, CO, NO₂ data obtained from Northwest San Bernardino Valley (SRA 32) monitoring station. Data for PM₁₀ and PM_{2.5} was obtained from Southwest San Bernardino (SRA 33) Monitoring Station.

ambient concentrations of NO₂ are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO₂ than those indicated by regional monitors.

- **Ozone (O₃):** 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.
- **PM₁₀ (Particulate Matter less than 10 microns):** 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. PM₁₀ also causes visibility reduction and is a criteria air pollutant.
- **PM_{2.5} (Particulate Matter less than 2.5 microns):** 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 SO₂ 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.
- **Volatile Organic Compounds (VOC):** Volatile organic compounds 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 O₃, which is a criteria pollutant. The SCAQMD uses the terms VOC and ROG (see below) interchangeably.
- **Reactive Organic Gases (ROG):** Similar to VOC, Reactive Organic Gases (ROG) 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 O₃, which is a criteria pollutant. The SCAQMD uses the terms ROG and VOC (see previous) interchangeably.
- **Lead (Pb):** Lead 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.

Health Effects of Air Pollutants

Ozone

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 subgroups 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

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

A consistent correlation between elevated ambient fine particulate matter (PM₁₀ 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 longterm 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 PM₁₀ and PM_{2.5}.

Nitrogen Dioxide

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 NO₂ 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 NO₂ 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 NO₂ 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 NO₂.

Sulfur Dioxide

A few minutes of exposure to low levels of SO₂ 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 SO₂. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO₂.

Animal studies suggest that despite SO₂ 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 SO₂ levels. In these studies, efforts to separate the effects of SO₂ 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

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.

Odors

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.

2.7 REGULATORY BACKGROUND

2.7.1 FEDERAL REGULATIONS

The U.S. EPA is responsible for setting and enforcing the NAAQS for O₃, CO, NO_x, SO₂, PM₁₀, and lead (2). 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 (9). 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 O₃, NO₂, SO₂, PM₁₀, CO, PM_{2.5}, and lead. The NAAQS were amended in July 1997 to include an

additional standard for O₃ 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, NO₂, NO₃) which are emitted as byproducts of the combustion process.

2.7.2 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 (3)(2).

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

Serious 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 ROG_s, NO_x, CO and PM₁₀. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than five percent per year under certain circumstances.

2.7.3 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 (10). 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 3.8.

2.8 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists is known as the Basin. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in Basin air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the Basin. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire Basin. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the South Coast Basin. The remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its Air Quality Management Plans (AQMPs) and by utilizing uniform CEQA review throughout the Basin.

The 2012 AQMP states, " the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs,"(11). Ozone, NO_x, VOC, and CO have been decreasing in the Basin since 1975 and are projected to continue to decrease through 2020(12). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled in the Basin continue to increase, NO_x and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_x emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. Ozone contour maps, show that the number of days exceeding the national 8-hour standard has decreased between 1997 and 2007. In the 2007 period, there was an overall decrease in exceedance days compared with the 1997 period. The overall trends of PM₁₀ and PM_{2.5} in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM₁₀ have remained somewhat constant in the Basin and direct emissions of PM_{2.5} have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct particulate matter emissions.

Ozone air quality in the SCAB has improved substantially over the last 30 years as shown in Table 2-4. During the 1960s, maximum 1-hour concentrations were above 0.60 ppm. Today, the maximum measured concentrations are less than one-third of that. The 2007 ozone season in the SCAB was on a par with 2006. The 2007 peak 8-hour indicator value was 42 percent lower than the 1988 value. The 2008 three-year average of the maximum 8-hour concentration was over 41 percent lower than 1990. The number of days above the standards has also declined dramatically, and the trend for 1-hour ozone is similar to that for 8-hour.

As with other pollutants, the PM₁₀ statistics also show overall improvement as illustrated in Table 2-5. During the period for which data are available, the three-year average of the annual average (State) decreased by 35 percent. Although the values in the late 1990's show some variability, this is probably due to meteorology rather than a change in emissions. Despite the overall decrease, ambient concentrations still exceed the State annual and 24-hour PM₁₀ standards. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM₁₀ standards has also shown an overall drop. During 1989, there were 305 calculated days above the State standard and 34 calculated days above the national standard. By 2007, there were 273 calculated State standard exceedance days and 13 national standard exceedance days. The high 24-hour concentration in 2007 was due to a national windblown dust event.

Table 2-6 shows the annual average PM_{2.5} concentrations (national) in the SCAB from 1999 through 2007. Overall, the annual average concentrations have decreased over 37 percent. The State annual average concentrations also show a declining trend, although the trend looks less pronounced, due to differences in State and national monitoring methods. The 98th percentile of 24 hour PM_{2.5} concentrations has also declined within the last nine years. The SCAB is currently designated as nonattainment for the State and national PM_{2.5} standards. Measures adopted as part of the upcoming PM_{2.5} SIP, as well as programs to reduce ozone and diesel PM will help in reducing public exposure to PM_{2.5} in this region.

Carbon monoxide concentrations in the SCAB have decreased markedly — a total decrease of more than 72 percent in the peak 8-hour indicator since 1988 as shown in Table 2-7. The number of exceedance days has also declined. During 1988 there were 73 days above the State standard and 65 days above the national standard. However, since 2003, there were no exceedance days for either standard. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

TABLE 2-4: SOUTH COAST AIR BASIN OZONE TREND

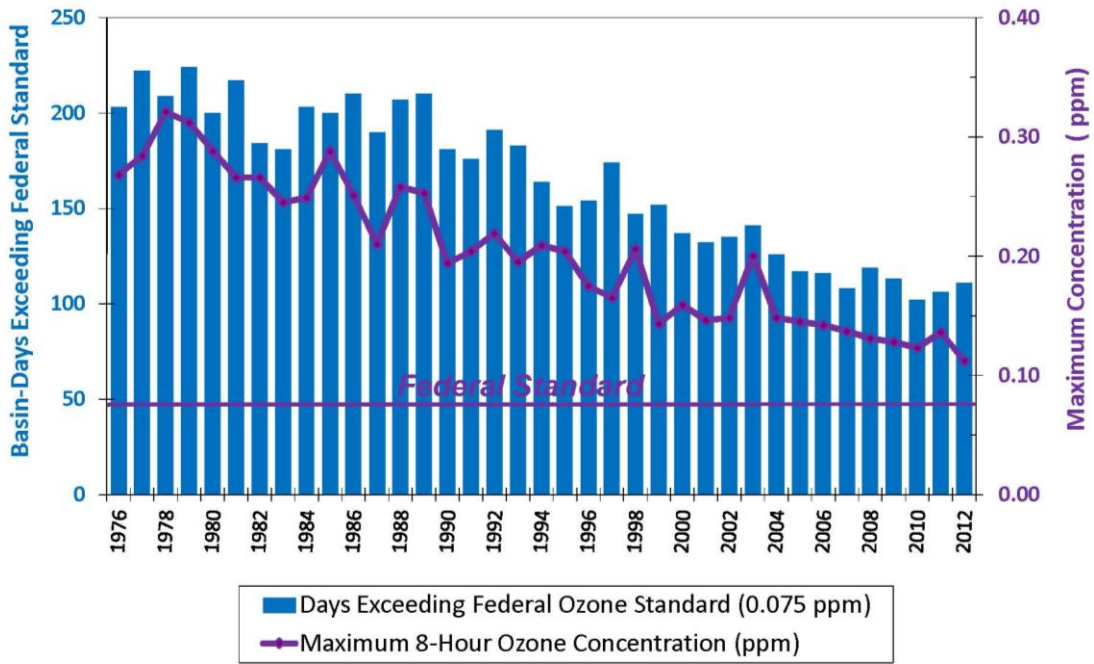


TABLE 2-5: SOUTH COAST AIR BASIN PM₁₀ TREND

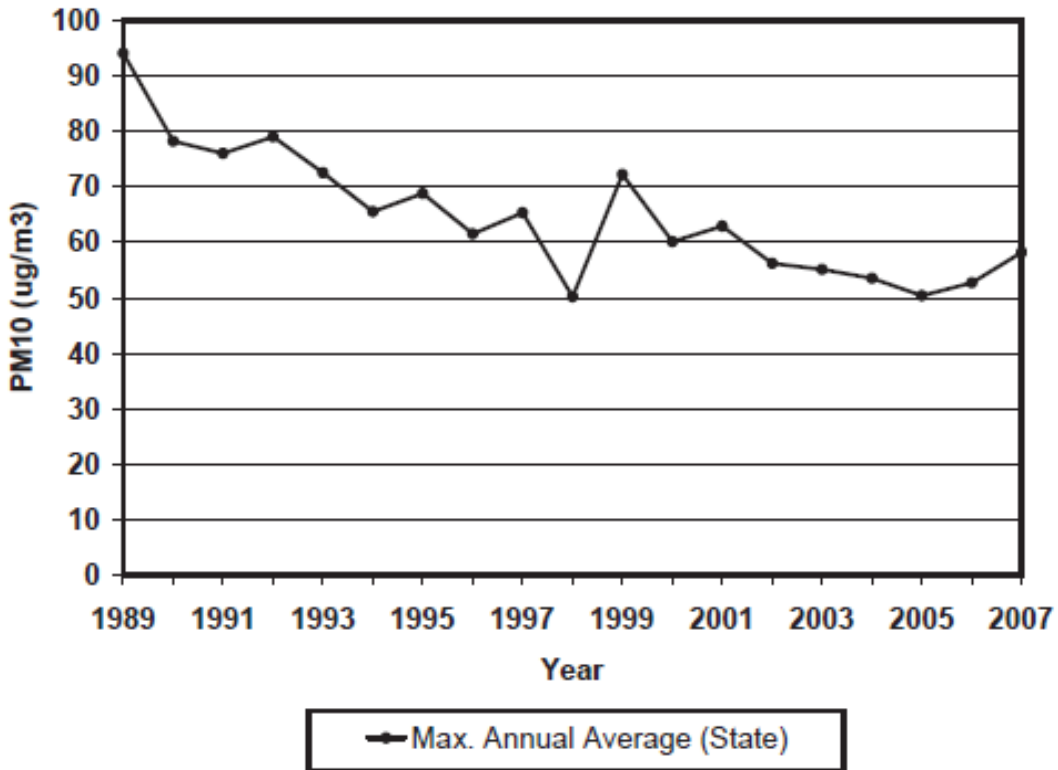


TABLE 2-6: SOUTH COAST AIR BASIN PM_{2.5} TREND

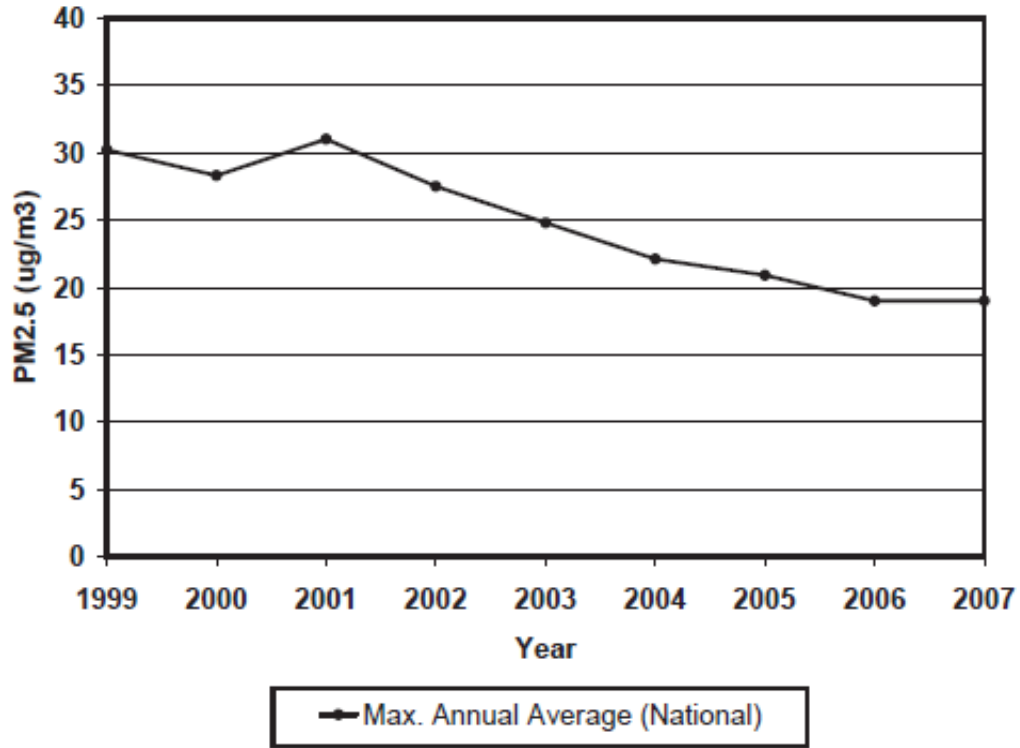
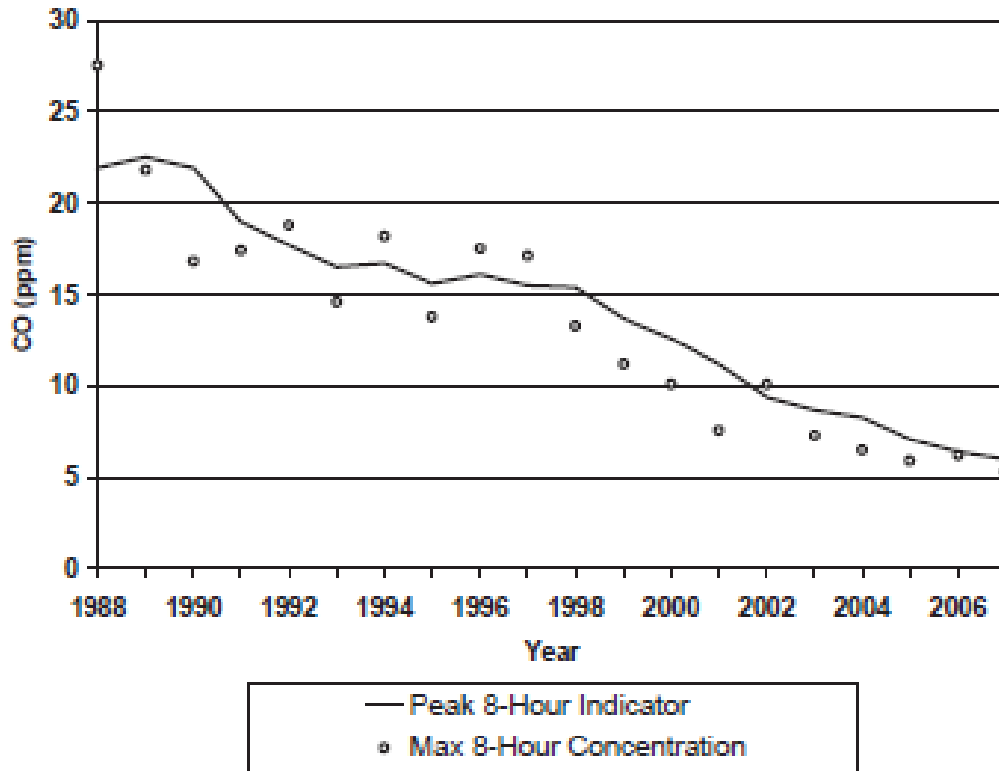


TABLE 2-7: SOUTH COAST AIR BASIN CARBON MONOXIDE TREND

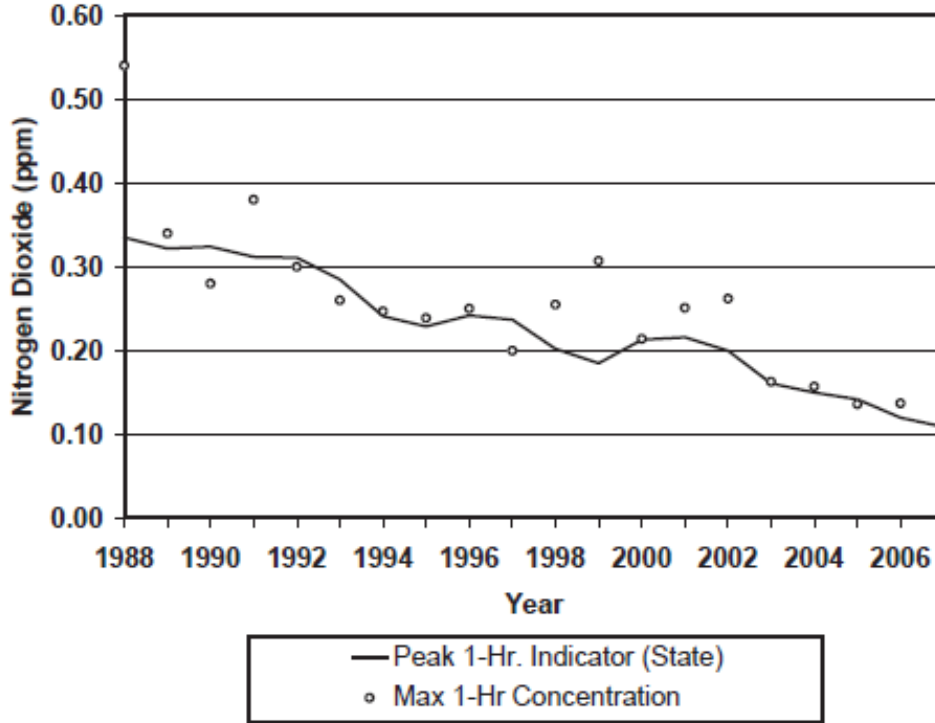


Part of the control process of the SCAQMD's duty to greatly improve the air quality in the Basin is the uniform CEQA review procedures required by SCAQMD's CEQA Handbook(13). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the Basin dramatically improving over the course of the past decades. As stated by the SCAQMD the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

Over the last 20 years, NO₂ values have decreased significantly in the SCAB as shown in Table 2-8. The peak 1-hour indicator for 2007 was over 67 percent lower than what it was during 1988. The SCAB attained the State 1-hour NO₂ standard in 1994, bringing the entire State into attainment. The national annual average standard has not been exceeded since 1991. A new state annual average standard was adopted by the ARB in February 2007. The new standard is just barely exceeded in the South Coast. NO₂ is formed from NO_x emissions, which also contribute to ozone. As a result, the majority of the future emission control measures will be implemented as part of the overall ozone control strategy. Many of these control measures will target mobile sources, which account for more than three-quarters of California's NO_x emissions. These measures are expected to bring the South Coast into attainment of the State annual average standard.

The American Lung Association website includes data collected from State air quality monitors that are used to compile an annual State of the Air report. These reports have been published over the last 13 years. The latest State of the Air Report compiled for the Basin was in 2010 (14). As noted in this report, air quality in the Basin has significantly improved in terms of both pollution levels and high pollution days over the past three decades. The area's average number of high ozone days dropped from 189.5 day per year in the initial 2000 State of the Air report (1996–1998) to 141.8 in the 2006–2008 report. The region has seen dramatic reduction in particle pollution since the initial State of the Air report (14).

TABLE 2-8: SOUTH COAST AIR BASIN NITROGEN DIOXIDE TREND



DIESEL REGULATIONS

The CARB and the Ports of Los Angeles and Long Beach have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, the CARB Drayage Truck Regulation (15), the CARB statewide On-road Truck and Bus Regulation (16), and the Ports of Los Angeles and Long Beach “Clean Truck Program” (CTP) require accelerated implementation of “clean trucks” into the statewide truck fleet (17). In other words, older more polluting trucks will be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HHDT), in terms of grams of DPM generated per mile traveled, will dramatically be reduced due to the aforementioned regulatory requirements. Table 2-9 provides a comparison of the estimated DPM emissions from that would occur under the statewide programs, reflected in EMFAC 2011, and what would occur under the Ports CTP (18).

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

CANCER RISK TRENDS

Based on information available from CARB, overall cancer risk throughout the basin has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, the State of California Air Resources Board (ARB) identified particulate matter from

diesel-fueled engines as a toxic air contaminant. Subsequent to this determination, the SCAQMD initiated a comprehensive urban toxic air pollution study, called MATES-II (for Multiple Air Toxics Exposure Study). MATES-II showed that average cancer risk in the SCAB ranges from 1,100 in a million to 1,750 in a million, with an average regional risk of about 1,400 in a million. Moreover, diesel particulate matter (DPM) accounts for more than 70 percent of the cancer risk.

In 2008 the SCAQMD prepared an update to the MATES-II study, referred to as MATES-III. MATES-III is the most comprehensive dataset documenting the ambient air toxic levels and health risks associated with the South Coast Air Basin emissions. Therefore, MATES-III study represents the baseline health risk for a cumulative analysis. MATES-III estimates the average excess cancer risk level from exposure to TACs is approximately 1,200 in one million basin-wide. These model estimates were based on monitoring data collected at ten fixed sites within the South Coast Air Basin. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-III has extrapolated the excess cancer risk levels throughout the basin by modeling the specific grids. MATES-III modeling predicted an excess cancer risk of 566 in one million for the Project area. DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 83.6% of the total risk shown in MATES-III. Cumulative Project generated TACs are limited to DPM. MATES-III data shows that the region around the Project site has an ambient cancer risk of 566 in one million (19).

As Shown on Table 2-10 Annual DPM concentration have been steadily declining since 1990 (12). Additional reductions in diesel risk exposure are anticipated to result from ARB's Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles. The annual average basin-wide cancer risk has also been steadily declining since 1990 as shown on Table 2-11.

The key elements of the Plan are to clean up existing engines through engine retrofit emission control devices, to adopt stringent standards for new diesel engines, and to lower the sulfur content of diesel fuel to protect new, and very effective, advanced technology emission control devices on diesel engines. When fully implemented, the Diesel Risk Reduction Plan will significantly reduce emissions from both old and new diesel-fueled motor vehicles and from stationary sources that burn diesel fuel. The goal of the Diesel Risk Reduction Plan is to reduce concentrations by 75 percent by 2010 and 85 percent by 2020.

TABLE 2-9: COMPARISON OF CALIFORNIA HHDT DPM EMISSIONS CONTROL PROGRAMS

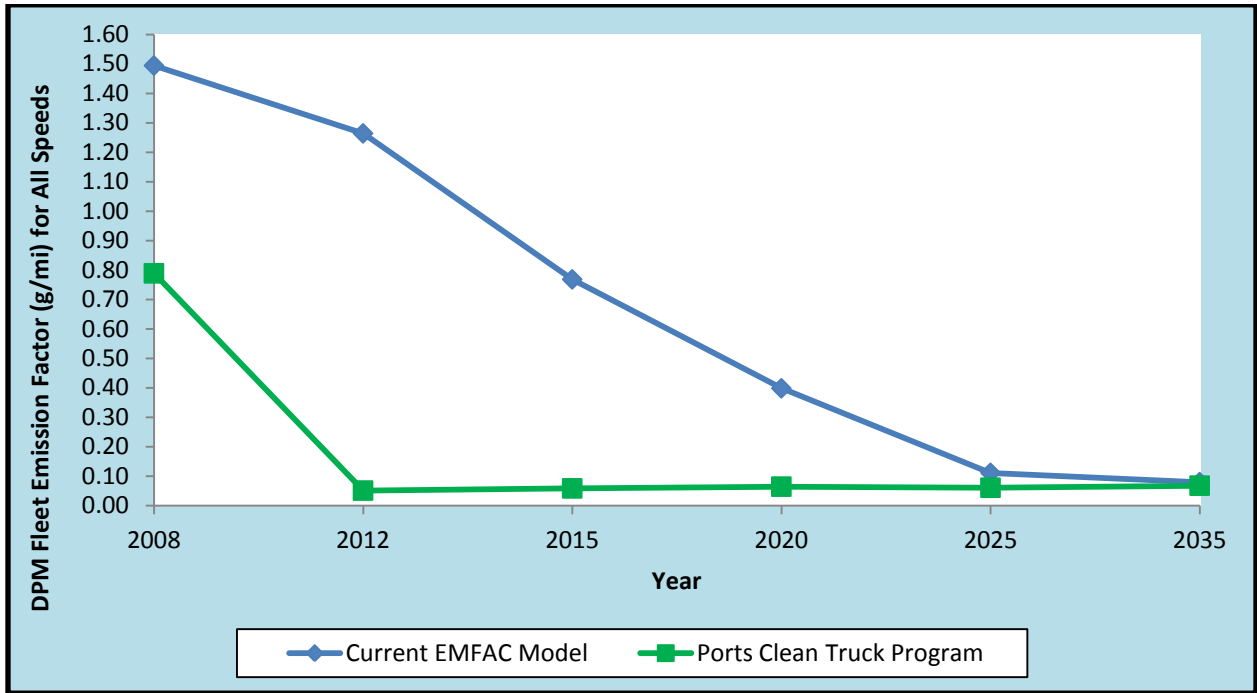


TABLE 2-10: DIESEL PARTICULATE MATTER ANNUAL AVERAGE CONCENTRATION

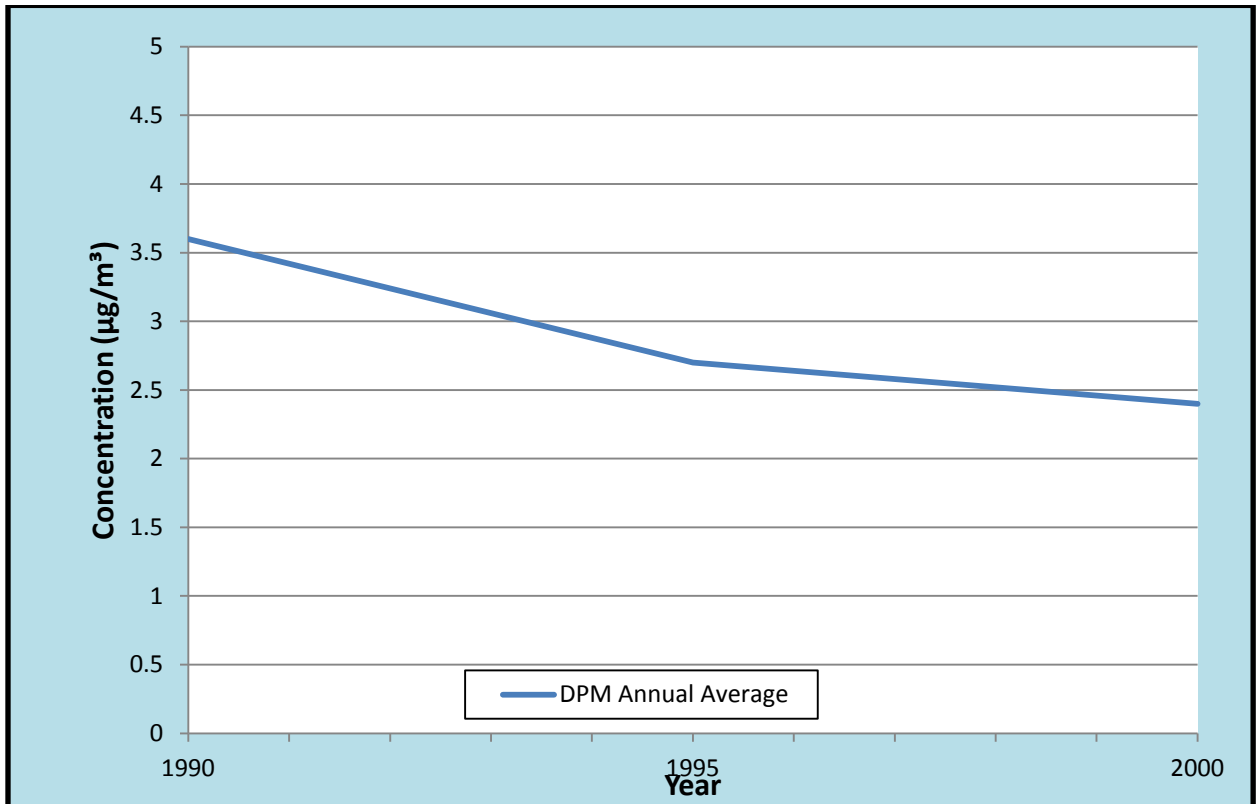
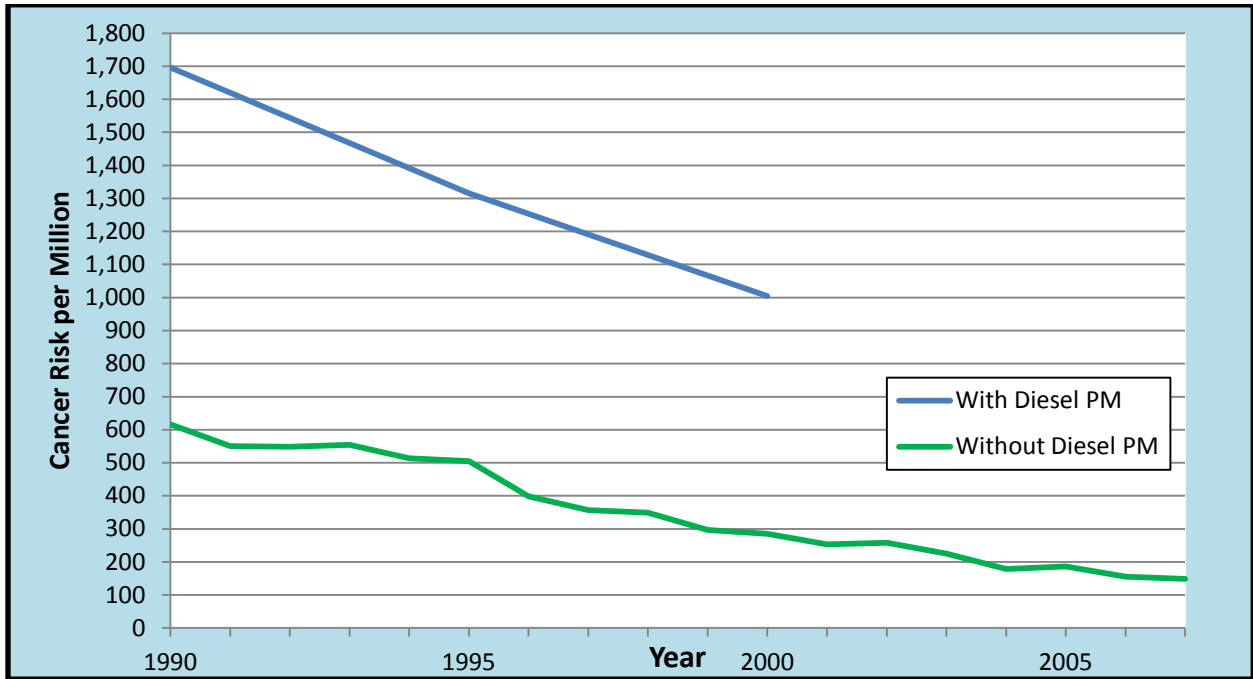


TABLE 2-11: ANNUAL AVERAGE BASIN CANCER RISK



2.9 EXISTING PROJECT SITE AIR QUALITY CONDITIONS

Planning Area 5 is currently developed with approximately 13,000 square feet of retail and service commercial uses, including fast food restaurants, a convenience store, and a self-serve fueling station. Planning Area 5 encompasses 2.7 acres and is located at the northwest corner of Archibald Avenue and Inland Empire Boulevard. Air pollutant emissions generated by existing land uses and operations within Planning Area 5 are summarized at Table 2-12. Emissions were estimated based on CalEEMod defaults for 13,000 square feet of shopping center land use.

TABLE 2-12: EXISTING LAND USE EMISSIONS SUMMARY

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source	0.34	1.00e-5	1.39e-3	--	1.00e-5	1.00e-5
Energy Source	7.60e-4	6.91e-3	5.81e-3	4.00e-5	5.30e-4	5.30e-4
Mobile	2.81	6.85	27.60	0.05	3.08	0.89
Total Existing Emissions	3.15	6.85	27.61	0.05	3.08	0.89

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source	0.34	1.00e-5	1.39e-3	--	1.00e-5	1.00e-5
Energy Source	7.60e-4	6.91e-3	5.81e-3	4.00e-5	5.30e-4	5.30e-4
Mobile	2.74	7.14	26.23	0.04	3.08	0.89
Total Existing Emissions	3.08	7.15	26.24	0.04	2.08	0.89

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 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 SCAQMD has developed regional and localized significance thresholds for regulated pollutants, as summarized at Table 3-1 (20). The SCAQMD's CEQA Air Quality Significance Thresholds (March 2011) 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

Pollutant	Construction	Operations
Regional Thresholds		
NOx	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM10	150 lbs/day	150 lbs/day
PM2.5	55 lbs/day	55 lbs/day
Sox	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day
Localized Thresholds		
CO (1-Hour)	20.0 ppm	20.0 ppm
CO (8-Hour)	9.0 ppm	9.0 ppm
NO2	0.18 ppm	0.18 ppm
PM10	10.4 µg/m ³	2.5 µg/m ³
PM2.5	10.4 µg/m ³	2.5 µg/m ³

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ESTIMATE AQ EMISSIONS

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

On October 2, 2013, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) released the latest version of the California Emissions Estimator Model™ (CalEEMod) v2013.2.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (NO_x, VOC, PM₁₀, 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 (21). 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.

3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of CO, VOCs, NO_x, SO_x, PM₁₀, and PM_{2.5}. Construction related emissions are expected from the following construction activities:

- Grading
- Building Construction
- Painting (Architectural Coatings)
- Paving (curb, gutter, flatwork, and parking lot)
- Construction Workers Commuting

Construction is expected to commence in November 2015 and will last through December 2020. Construction duration by Planning Area is shown on Tables 3-2, 3-3, 3-4, and 3-5. The construction schedule utilized in the analysis represents a “worst-case” analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as the analysis year increases. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per CEQA guidelines. Site specific construction fleet may vary due to specific project needs at the time of construction. The duration of construction activity was estimated based on consultation with the applicant while assuming a 2017 opening year for Planning Area 1 and a 2020 opening year for Planning Areas 2, 3, and 4. Associated equipment was estimated based on consultation with the applicant and past project experience. Please refer to specific detailed modeling inputs/outputs contained in Appendix 3.1 of this analysis. A detailed summary of construction equipment assumptions by Planning Area is provided in Tables 3-6 and 3-7. It should be noted that the construction equipment estimates provided in Tables 3-6 and 3-7 represent a “worst-case” (i.e. likely overestimation) of construction equipment actually employed during construction activities.

TABLE 3-2: PLANNING AREA 1 CONSTRUCTION DURATION

Phase	Duration (working days)
Grading	45
Building Construction	475
Architectural Finishes	260
Paving	45

TABLE 3-3: PLANNING AREA 2 CONSTRUCTION DURATION

Phase	Duration (working days)
Grading	45
Building Construction	400
Architectural Finishes	348
Paving	270

TABLE 3-4: PLANNING AREA 3 CONSTRUCTION DURATION

Phase	Duration (working days)
Grading	45
Building Construction	400
Architectural Finishes	375
Paving	271

TABLE 3-5: PLANNING AREA 4 CONSTRUCTION DURATION

Phase	Duration (working days)
Grading	45
Building Construction	400
Architectural Finishes	400
Paving	243

TABLE 3-6: PHASE 1 CONSTRUCTION EQUIPMENT ASSUMPTIONS

Activity	Equipment	Number	Hours Per Day
Grading	Excavators	4	8
	Graders	8	8
	Water Trucks	6	8
	Rubber Tired Dozers	8	8
	Scrapers	16	8
	Tractors/Loaders/Backhoes	4	8
Building Construction	Cranes	6	8
	Forklifts	10	8
	Generator Sets	4	8
	Tractors/Loaders/Backhoes	10	8
	Welders	4	8
Architectural Finishes	Air Compressors	12	8
Paving & Site Finishes	Pavers	8	8
	Paving Equipment	8	8
	Rollers	8	8

TABLE 3-7: PHASE 2, 3, 4 CONSTRUCTION EQUIPMENT ASSUMPTIONS

Activity	Equipment	Number	Hours Per Day
Grading	Graders	4	8
	Water Trucks	4	8
	Rubber Tired Dozers	8	8
	Scrapers	8	8
	Tractors/Loaders/Backhoes	4	8
Building Construction	Cranes	4	8
	Forklifts	6	8
	Generator Sets	4	8
	Tractors/Loaders/Backhoes	6	8
	Welders	4	8
Architectural Finishes	Air Compressors	6	8
Paving & Site Finishes	Pavers	4	8
	Paving Equipment	4	8
	Rollers	4	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.

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.

3.4.1 CONSTRUCTION EMISSIONS SUMMARY

Impacts Without Mitigation

The estimated maximum daily construction emissions without mitigation are summarized on Table 3-8. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction will exceed criteria pollutant thresholds established by the SCAQMD for emissions of VOCs, NO_x, CO, and PM 2.5 (before mitigation).

TABLE 3-8: EMISSIONS SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION)

Year	Emissions (pounds per day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
2015	49.16	588.45	356.84	0.45	85.74	52.00
2016	46.93	555.90	341.72	0.45	84.19	50.58
2017	330.25	208.17	262.23	0.52	33.56	16.66
2018	330.47	521.05	618.07	1.36	124.78	61.24
2019	327.65	392.34	612.76	1.40	85.55	35.48
2020	201.75	206.56	303.84	0.66	36.74	16.74
Maximum Daily Emissions	330.47	588.45	618.07	1.40	124.78	61.24
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	NO	YES

Impacts With Mitigation

The estimated maximum daily construction emissions with mitigation are summarized on Table 3-9. Detailed construction model outputs are presented in Appendix 3.1. Mitigation measures that would reduce the extent and severity of the Project's potential construction-source air quality impacts are presented in Section 4.3 of this Study. Mitigation measures MM AQ-1 and MM AQ-4 are recommended to reduce the severity of the impact. After implementation of the appropriate mitigation measures, construction activity emissions will exceed the thresholds established by the SCAQMD for emissions of VOCs, NO_x, and CO. No feasible mitigation measures exist that would reduce these emissions to levels that are less than the aforementioned thresholds.

TABLE 3-9: EMISSIONS SUMMARY OF CONSTRUCTION (WITH MITIGATION)

Year	Emissions (pounds per day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
2015	15.05	249.63	248.07	0.45	33.82	20.95
2016	22.06	242.91	246.23	0.45	33.47	20.63
2017	206.92	178.10	263.72	0.52	32.11	15.38
2018	217.62	352.42	624.52	1.36	83.84	37.32
2019	201.72	354.00	621.90	1.40	83.78	33.95
2020	132.47	196.19	307.58	0.66	36.28	16.35
Maximum Daily Emissions	217.62	354.00	624.52	1.40	83.84	37.32
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	NO	NO

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of ROG, NOX, CO, SOX, PM10, and PM2.5. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Equipment 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.

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.

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.

Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in 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-source) air quality 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 – approximately 90.04 percent (by weight) of all Project operational-source emissions are generated by mobile sources (vehicles). Trip characteristics available from the report, Meredith International Centre Specific Plan Amendment Traffic Impact Analysis (Linscott Law & Greenspan Engineers) 2014 were utilized in this analysis (22). It should be noted that the Project's traffic study presents the total Project vehicle trips in terms of Passenger Car Equivalents (PCEs) in an effort to recognize and acknowledge the effects of heavy vehicles at the study intersections. Notwithstanding, for purposes of this air quality study, the PCE trips were not used. Rather, to more accurately estimate and model vehicular-source emissions, the actual number of vehicles, by vehicle classification (e.g., passenger cars (including light trucks), heavy trucks) were used in the analysis. The Project will reduce vehicle miles traveled by: designing a Project that promotes a suburban center setting and increasing the diversity in land uses. Thus the appropriate CalEEMod parameters have been enabled to ensure appropriate credit is taken for these design features.

For Planning Area 1 (Industrial land use), the vehicle fleet mix, in terms of actual vehicles, as derived from the traffic study for the Project would be approximately 78.60% passenger cars and approximately 21.40% total trucks. For analysis purposes, 37.38% of all trucks are assumed to be Light-Heavy-Duty (LHD), 18.22% of all trucks are assumed to be Medium-Heavy-Duty (MHD), and 44.40% of all trucks are assumed to be Heavy-Heavy-Duty (HHD). This proportional truck mix by axle type is based on information provided in the Project's traffic study. The Project was input as a single category or type of land-use (General Light Industry) in the CalEEMod™ emissions inventory

For Planning Area 1 (High-Cube Warehouse land use), the vehicle fleet mix, in terms of actual vehicles, as derived from the traffic study for the Project is comprised of approximately 79.58% passenger cars and approximately 20.42% total trucks. For analysis purposes 16.94% of all trucks are assumed to be Light-Heavy-Duty (LHD), 22.71% of all trucks are assumed to be

Medium-Heavy-Duty (MHD), and 60.35% of all trucks are assumed to be Heavy-Heavy-Duty (HHD). The Project was input as a single category or type of land-use (Warehouse-No Rail) in the CalEEMod™ emissions inventory

For Planning Areas 2, 3, 4 & 5, CalEEMod defaults were utilized for fleet mix and trip rates from the Project's traffic study were utilized.

3.5.3.1 Trip Length

Background

A technical deficiency inherent in calculating the projected vehicle emissions associated with any project is related to the estimation of trip length and vehicle miles traveled (VMT). VMT for a given project is calculated by the total number of vehicle trips to/from the Project x average trip length. This method of estimating VMT for use in calculating vehicle emissions likely results in the over-estimation and double-counting of emissions because, for a distribution warehouse center such as the Project, the land use is likely to attract (divert) existing vehicle trips that are already on the circulation system as opposed to generating new trips. In this regard, the Project would, to a large extent, redistribute existing mobile-source emissions rather than generate additional emissions within the Basin. As such, the estimation of the Fontana Commerce Development Project's vehicular-source emissions is likely overstated in that no credit for, or reduction in, emissions is assumed based on diversion of existing trips.

Provided below is a summary of the VMT recommendations of the SCAQMD and SCAG, followed by a description of the methodology used to calculate the VMT rates used in this AQIA.

SCAQMD Recommendation

In the last five years, the SCAQMD has provided numerous comments on the trip length for warehouse/distribution and industrial land use projects (24). The SCAQMD asserts that the model-default trip length in CalEEMod™ and the URBan EMISsions (URBEMIS) 2007 model (version 9.2.4) would underestimate emissions. The SCAQMD asserts that for warehouse, distribution center, and industrial land use projects, most of the heavy-duty trucks would be hauling consumer goods, often from the Ports of Long Beach and Los Angeles (POLA and POLB) and/or to destinations outside of California. The SCAQMD states that for this reason, the CalEEMod™ and the URBan EMISsions model default trip length (approximately 12.6 miles) would not be representative of activities at like facilities. The SCAQMD generally recommends the use of a 40-mile one-way trip length.

Southern California Association of Government (SCAG) Heavy Duty Truck Model

SCAG is comprised of six counties (Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura) and 190 cities in Southern California, and is the organization charged with addressing and resolving short- and long-term regional policy issues. The SCAG region also consists of 14 subregional entities recognized by the Regional Council as partners in the regional policy planning process. The SCAG region has more than 19 million residents and

encompasses more than 38,000 square miles, representing the largest and most diverse region in the country.

SCAG maintains a regional transportation model. In its most recent (2008) transportation validation for the 2003 Regional Model, SCAG indicates the average internal truck trip length for the SCAG region is 5.92 miles for Light Duty Trucks, 13.06 miles for Medium Duty Trucks, and 24.11 miles for Heavy Duty Trucks.

Approach for Analysis of the Project

Trip lengths and VMT estimates employed in this AQIA report generate vehicular-source emissions that would represent a maximum impact scenario. Other Environmental Impact Reports (EIRs) for similar land use projects within the region have utilized these same or similar estimates (25)(26) (27). To maintain analytic consistency and establish the maximum impact scenario noted above, the following approach has been utilized in calculating emissions associated with vehicles accessing the Project.

For passenger car trips, the San Bernardino County CalEEMod default for a one-way trip length of 16.6 miles was assumed. For heavy duty trucks, an average trip length was derived from distances from the Project site to the limits of the South Coast Air Basin (SCAB) as follows. It is appropriate to terminate the VMT calculation at the boundary of the SCAB because any activity beyond that boundary would be speculative, this approach is also consistent with professional industry practice.

- Project site to the Port of Los Angeles/Long Beach: 51 miles;
- Project site to Banning Pass: 39 miles;
- Project site to San Diego County line: 50 miles;
- Project site to Cajon Pass: 11 miles;
- Project site to downtown Los Angeles: 47 miles.

Assuming that 50% of all delivery trips will travel to and from the Project and the Port of Los Angeles/Long Beach, and the remainder as distribution trips to all other locations, the average truck trip length is calculated as 44 miles.

For industrial land uses, two separate model runs were utilized in order to more accurately model emissions resulting from vehicle operations. The first run analyzed passenger car emissions, which incorporated a default trip length of 16.6 miles for passenger cars within San Bernardino County and a fleet mix of 100% Light-Duty-Auto vehicles (LDA). The second run analyzed truck emissions, which incorporated an average truck trip length of 44 miles and a fleet mix illustrative of a light industrial or high-cube warehouse (depending on the modeled land use) as described previously. The estimated emissions resulting from vehicle operations are summarized in Table 3-7 (presented later in this report.) Detailed emission calculations are provided in Appendix "3.1".

Fugitive Dust Related to Vehicular Travel

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of tire wear particulates. The emissions estimates for travel on paved roads were calculated using the CalEEMod model.

3.5.4 ON-SITE EQUIPMENT EMISSIONS

It is common for an industrial warehouse project to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. The most common type of cargo handling equipment is the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. Yard trucks have a horsepower (hp) range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (28); high-cube warehouse projects typically have 3.6 yard trucks per million square feet of building space.

For this particular Project, on-site modeled operational equipment for light industrial land uses includes three 200 hp yard tractors operating at 4 hours a day for 260 days of the year⁴, using a non-diesel fuel. The emissions associated with on-site equipment were calculated using the CalEEMod model. On-site modeled operational equipment for high-cube warehouse land uses includes nine 200 hp yard tractors operating at 4 hours a day for 260 days of the year, using a non-diesel fuel. The emissions associated with on-site equipment were calculated using the CalEEMod model.

4 Four hour daily on-site operation of the yard trucks is based on the Port of Long Beach Air Emissions Inventory document (July 2013)

3.5.5 OPERATIONAL EMISSIONS SUMMARY

Impacts Without Mitigation

Operational-source emissions in Year 2017⁵ without implementation of mitigation measures are summarized on Table 3-10. For regional emissions, the Project would exceed the thresholds of significance established by the SCAQMD for emissions of VOCs, NO_x, CO, and PM10. Mitigation measure (MM AQ-5) is recommended to reduce the severity of the impact.

Operational-source emissions for Planning Area 1 (2020) and Planning Areas 2, 3, and 4 (2020) without implementation of mitigation measures are summarized on Table 3-11. For regional emissions, the Project would exceed the numerical thresholds of significance established by the SCAQMD for emissions of VOCs, NO_x, CO, PM10, and PM2.5. Mitigation measure (MM AQ-5, presented at Section 4.4 of this Study) are recommended to reduce the severity of the impact.

⁵ Includes the operational emissions from requested entitlements for 86,000 SF of commercial/retail uses within Planning Area 2, anticipated to be complete and occupied by 2017

TABLE 3-10: SUMMARY OF YEAR 2017 PEAK OPERATIONAL EMISSIONS (WITHOUT MITIGATION)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Planning Area 1 (Light Industrial & High-Cube Warehouse Use)</i>						
Area Source	78.66	2.96e-3	0.31	2.00e-5	1.13e-2	1.13e-3
Energy Source	0.56	5.13	4.31	0.03	0.39	0.39
Mobile (Passenger Cars)	14.86	16.03	234.86	0.67	60.35	16.22
Mobile (Trucks)	35.07	591.97	338.09	1.88	71.32	26.19
On-Site Equipment	2.40	33.35	10.76	0.04	1.09	1.00
Planning Area 1 Sub-total	131.55	646.48	588.33	2.62	133.15	43.80
<i>Planning Area 2⁶</i>						
Area Source	2.25	8.00e-5	8.95e-3	--	3.00e-5	3.00e-5
Energy Source	5.03e-3	0.05	0.04	2.70e-4	3.48e-3	3.48e-3
Mobile	14.42	35.25	140.65	0.31	20.18	5.69
Planning Area 2 Sub-total	16.67	35.30	140.70	0.31	20.18	5.69
<i>Planning Area 1 + 2 Total (Year 2017)</i>	<i>148.22</i>	<i>681.78</i>	<i>729.03</i>	<i>2.93</i>	<i>153.33</i>	<i>49.49</i>
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	NO

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Planning Area 1 (Light Industrial & High-Cube Warehouse Use)</i>						
Area Source	78.66	2.96e-3	0.31	2.00e-5	1.13e-3	1.13e-3
Energy Source	0.56	5.13	4.31	0.03	0.39	0.39
Mobile (Passenger Cars)	13.74	17.02	199.49	0.61	60.35	16.22
Mobile (Trucks)	35.71	617.39	358.34	1.88	71.33	26.19
On-Site Equipment	2.40	33.35	10.76	0.04	1.09	1.00
Planning Area 1 Sub-total	131.07	672.89	573.21	2.56	133.16	43.80
<i>Planning Area 2⁶</i>						
Area Source	2.25	8.00e-5	8.95e-3	--	3.00e-5	3.00e-5
Energy Source	5.03e-3	0.05	0.04	2.70e-4	3.48e-3	3.48e-3
Mobile	13.99	36.71	135.13	0.29	20.18	5.69
Planning Area 2 Sub-total	16.24	36.75	135.18	0.29	20.18	5.70
<i>Planning Area 1 + 2 Total (Year 2017)</i>	<i>147.31</i>	<i>709.64</i>	<i>708.39</i>	<i>2.85</i>	<i>153.34</i>	<i>49.50</i>
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	NO

⁶ Includes the operational emissions from requested entitlements for 86,000 SF of commercial/retail uses within Planning Area 2, anticipated to be complete and occupied by 2017.

TABLE 3-11: SUMMARY OF YEAR 2020 PEAK OPERATIONAL EMISSIONS (WITHOUT MITIGATION)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Planning Area 1 (Light Industrial & High-Cube Warehouse Use)</i>						
Area Source	78.66	2.85e-3	0.31	2.00e-5	1.11e-3	1.11e-3
Energy Source	0.69	6.24	5.24	0.04	0.48	0.48
Mobile (Passenger Cars)	10.56	12.46	179.45	0.67	60.37	16.23
Mobile (Trucks)	30.84	438.84	300.49	1.86	70.36	25.31
On-Site Equipment	1.85	22.60	9.87	0.04	0.75	0.68
Planning Area 1 Sub-total	122.60	480.14	495.36	2.61	131.96	42.70
<i>Planning Areas 2, 3, & 4</i>						
Area Source	73.10	0.77	66.74	3.52e-3	1.44	1.43
Energy Source	0.91	8.07	5.67	0.05	0.63	0.63
Mobile	111.16	278.40	1,131.00	3.15	208.72	58.63
Planning Areas 2, 3, & 4 Sub-total	185.17	287.24	1,203.40	3.20	210.79	60.69
<i>Planning Areas 1, 2, 3, & 4 Total (Year 2020)</i>	<i>307.77</i>	<i>767.38</i>	<i>1698.76</i>	<i>5.89</i>	<i>342.75</i>	<i>103.39</i>
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Planning Area 1 (Light Industrial & High-Cube Warehouse Use)</i>						
Area Source	78.66	2.85e-3	0.31	2.00e-5	1.11e-3	1.11e-3
Energy Source	0.69	6.24	5.24	0.04	0.48	0.48
Mobile (Passenger Cars)	9.75	13.19	151.23	0.61	60.37	16.23
Mobile (Trucks)	31.39	457.59	321.53	1.86	70.38	25.31
On-Site Equipment	1.85	22.60	9.87	0.04	0.75	0.68
Planning Area 1 Sub-total	122.34	499.62	488.18	2.55	131.98	42.70
<i>Planning Areas 2, 3, & 4</i>						
Area Source	73.10	0.77	66.74	3.52e-3	1.44	1.43
Energy Source	0.91	8.07	5.67	0.05	0.63	0.63
Mobile	107.65	289.86	1,084.25	2.93	208.74	58.65
Planning Areas 2, 3, & 4 Sub-total	181.66	298.70	1,156.67	3.00	210.81	60.70
<i>Planning Areas 1, 2, 3, & 4 Total (Year 2020)</i>	<i>304.00</i>	<i>798.32</i>	<i>1,644.85</i>	<i>5.55</i>	<i>342.79</i>	<i>103.40</i>
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES

Impacts With Mitigation

Operational-source emissions in Year 2017⁷ with implementation of mitigation measures are summarized on Table 3-12. For regional emissions, even with the application of mitigation, the Project would exceed applicable thresholds of significance established by the SCAQMD for emissions of VOCs, NO_x, CO, and PM10.

Operational-source emissions for Planning Area 1 (2020) and Planning Areas 2, 3, and 4 (2020) with implementation of mitigation measures are summarized on Table 3-13. For regional emissions, even with the application of mitigation, the Project would exceed applicable thresholds of significance established by the SCAQMD for emissions of VOCs, NO_x, CO, PM10, and PM2.5.

⁷ Includes the operational emissions from requested entitlements for 86,000 SF of commercial/retail uses within Planning Area 2, anticipated to be complete and occupied by 2017.

TABLE 3-12: SUMMARY OF YEAR 2017 PEAK OPERATIONAL EMISSIONS (WITH MITIGATION)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Planning Area 1 (Light Industrial & High-Cube Warehouse Use)</i>						
Area Source	78.66	2.96e-3	0.31	2.00e-5	1.13e-3	1.13e-3
Energy Source	0.55	5.02	4.21	0.03	0.38	0.38
Mobile (Passenger Cars)	14.86	16.03	234.93	0.67	60.35	16.22
Mobile (Trucks)	35.07	591.97	338.09	1.88	71.32	26.19
On-Site Equipment	2.40	33.35	10.76	0.04	1.09	1.00
Planning Area 1 Sub-total	131.54	646.37	588.30	2.62	133.14	43.79
<i>Planning Area 2⁸</i>						
Area Source	2.25	8.00e-5	8.95e-3	--	3.00e-5	3.00e-5
Energy Source	4.82e-3	0.04	0.04	2.60e-4	3.33e-3	3.33e-3
Mobile	14.42	35.25	140.65	0.31	20.18	5.69
Planning Area 2 Sub-total	16.67	35.29	140.70	0.31	20.18	5.69
<i>Planning Area 1 + 2 Total (Year 2017)</i>	<i>148.21</i>	<i>681.66</i>	<i>729.00</i>	<i>2.93</i>	<i>153.32</i>	<i>49.48</i>
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	NO

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Planning Area 1 (Light Industrial & High-Cube Warehouse Use)</i>						
Area Source	78.66	2.96e-3	0.31	2.00e-5	1.13e-3	1.13e-3
Energy Source	0.55	5.02	4.21	0.03	0.38	0.38
Mobile (Passenger Cars)	13.74	17.02	199.49	0.61	60.35	16.22
Mobile (Trucks)	35.71	617.39	358.34	1.88	71.33	26.19
On-Site Equipment	2.40	33.35	10.76	0.04	1.09	1.00
Planning Area 1 Sub-total	131.06	672.78	573.11	2.56	133.15	43.79
<i>Planning Area 2⁷</i>						
Area Source	2.25	8.00e-5	8.95e-3	--	3.00e-5	3.00e-5
Energy Source	4.82e-3	0.04	0.04	2.60e-4	3.33e-3	3.33e-3
Mobile	13.99	36.71	135.13	0.29	20.18	5.69
Planning Area 2 Sub-total	16.24	36.71	135.13	0.29	20.18	5.69
<i>Planning Area 1 + 2 Total (Year 2017)</i>	<i>147.30</i>	<i>709.49</i>	<i>708.24</i>	<i>2.85</i>	<i>153.33</i>	<i>49.48</i>
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	NO

⁸ Includes the operational emissions from requested entitlements for 86,000 SF of commercial/retail uses within Planning Area 2, anticipated to be complete and occupied by 2017.

TABLE 3-13: SUMMARY OF YEAR 2020 PEAK OPERATIONAL EMISSIONS (WITH MITIGATION)

Operational Activities – Summer Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Planning Area 1 (Light Industrial & High-Cube Warehouse Use)</i>						
Area Source	78.66	2.85e-3	0.31	2.00e-5	1.11e-3	1.11e-3
Energy Source	0.67	6.07	5.10	0.04	0.46	0.46
Mobile (Passenger Cars)	10.57	12.53	180.45	0.67	60.74	16.33
Mobile (Trucks)	30.84	438.84	300.49	1.86	70.36	25.31
On-Site Equipment	1.85	22.60	9.87	0.04	0.75	0.68
Planning Area 1 Sub-total	122.59	480.04	496.22	2.61	132.31	42.78
<i>Planning Areas 2, 3, & 4</i>						
Area Source	73.10	0.77	66.74	3.52e-3	1.44	1.43
Energy Source	0.87	7.72	5.41	0.05	0.60	0.60
Mobile	103.20	217.58	912.75	2.32	151.76	42.69
Planning Areas 2, 3, & 4 Sub-total	177.17	226.07	984.89	2.37	153.80	44.71
<i>Planning Areas 1, 2, 3, & 4 Total (Year 2020)</i>	<i>299.76</i>	<i>706.11</i>	<i>1481.11</i>	<i>4.98</i>	<i>286.11</i>	<i>87.49</i>
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES

Operational Activities – Winter Scenario	Emissions (pounds per day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
<i>Planning Area 1 (Light Industrial & High-Cube Warehouse Use)</i>						
Area Source	78.66	2.85e-3	0.31	2.00e-5	1.11e-3	1.11e-3
Energy Source	0.67	6.07	5.10	0.04	0.46	0.46
Mobile (Passenger Cars)	9.76	13.26	152.03	0.61	60.74	16.33
Mobile (Trucks)	31.39	457.59	321.54	1.86	70.38	25.31
On-Site Equipment	1.85	22.60	9.87	0.04	0.75	0.68
Planning Area 1 Sub-total	122.33	499.52	488.85	2.55	132.33	42.78
<i>Planning Areas 2, 3, & 4</i>						
Area Source	73.10	0.77	66.74	3.52e-3	1.44	1.43
Energy Source	0.87	7.72	5.41	0.05	0.60	0.60
Mobile	100.12	225.89	901.02	2.16	151.78	42.71
Planning Areas 2, 3, & 4 Sub-total	174.09	234.37	973.16	2.21	153.82	44.73
<i>Planning Areas 1, 2, 3, & 4 Total (Year 2020)</i>	<i>296.42</i>	<i>733.89</i>	<i>1462.01</i>	<i>4.76</i>	<i>286.15</i>	<i>87.51</i>
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES

3.6 LOCALIZED SIGNIFIANCE - CONSTRUCTION ACTIVITY

BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLDS (LSTs)

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (Methodology) (29). 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 NO₂, 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. For the nonattainment pollutants PM₁₀ and PM_{2.5}, background ambient concentrations already exceed state and/or federal standards. LSTs for PM₁₀ and PM_{2.5} are therefore based on SCAQMD Rules 403/1303 (construction-source/operational-source emissions respectively) and are established as an allowable change in concentration. Background concentrations are irrelevant.

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. The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (30). For this Project, the appropriate Source Receptor Area (SRA) for the LST analysis is the Northwest San Bernardino Valley monitoring station (SRA 32). LSTs apply to carbon monoxide (CO), nitrogen dioxide (NO₂), particulate matter ≤ 10 microns (PM₁₀), and particulate matter ≤ 2.5 microns (PM_{2.5}).

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 (31)." Therefore, for purposes of the construction LST analysis only emissions included in the CalEEMod "on-site" emissions outputs were considered.

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 house these persons or places where they gather to exercise are defined as "sensitive receptors".

Sensitive receptors in the vicinity of the Project site are illustrated at Exhibit 3-A, and include the existing residential dwellings located at receptor locations R1 to R8, and R11 to R12; the

existing hotel use at receptor location R10; and the existing Bernt Elementary School at receptor location R13. Receptor location R13 represents the Project conditions under Option B which reflects continued presence and operations of the Bernt School at its present location. Receptor location R9 represents the future location of Urban Residential land use in Planning Area 4 of the Project site.

Localized air quality impacts were evaluated at sensitive receptor land uses nearest the Project site. To assess the stationary source operational and construction air impacts, the following 13 sensitive receptor locations, as shown on Exhibit 3-A, were identified.

- R1: Located approximately 102 feet west of the Project site, R1 represents the existing single-family residential dwellings along Vineyard Avenue.
- R2: Location R2 represents the existing multi-family residential dwellings along 4th Street located roughly 83 feet north of the Project Site.
- R3: Location R3 represents the existing mobile home park situated approximately 78 feet north of the Project site.
- R4: Location R4 represents the existing single-family residential dwellings located approximately 180 feet northeast of the Project site.
- R5: At a distance of approximately 895 feet east of the Project site, location R5 represents existing single-family residential dwellings south of 4th Street.
- R6: At a distance of 959 feet east of the Project site, R6 describes the existing single-family residential dwellings across the San Bernardino flood control facilities.
- R7: Location R7 represents the single-family residential dwellings located approximately 1353 feet north of the Project site along Archibald Avenue.
- R8: Located approximately 335 feet east of the Project site, R8 represents the commercial plaza adjacent to existing single family residential homes north of Inland Empire Boulevard.
- R9: Location R9 represents the future location of multi-family residential dwellings within the Urban Residential land use in Planning Area 4 of the Project site.
- R10: Located approximately 235 feet south of the Project site across the I-10 Freeway, R10 represents the existing Residence Inn hotel.
- R11: Location R11 represents the existing single family residential homes west of Vineyard Avenue and north of the I-10 Freeway westbound on-ramp, located approximately 141 feet west of the Project site.
- R12: Located approximately 51 feet west of the Project site, R12 represents the existing single family residential homes west of Vineyard Avenue.
- R13: Located within the Project site, R13 represents the existing Bernt Elementary School on 4th Street.

Under Option B, the nearest potentially affected sensitive receptor land use would be the Bernt School (R13), abutting the Project's industrial land uses. Under development of Option A, the nearest potentially affected sensitive receptor would be the residential land uses (R12) located approximately 15 meters/51 feet westerly of the Project site, across Vineyard Avenue.

Notwithstanding, the proximity of the sensitive receptors noted above, the *Methodology* explicitly recognizes that *“It is possible that a project may have receptors closer than 25 meters*

EXHIBIT 3-A: SENSITIVE RECEPTOR LOCATIONS



LEGEND:

- Air Quality Receptor Locations
- Distance from Air Quality Receptor to Project site boundary (in feet)

[82 feet]. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters (30).” Accordingly, LSTs for receptors at 25 meters are utilized in this analysis and provide for a conservative i.e. “health protective” standard of care.

CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

The SCAQMD has issued guidance on applying CalEEMod to LSTs. Since CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment, the information in Table 3-14 is used to determine the maximum daily disturbed-acreage for comparison to LSTs. To ensure consistency with LST modeling of construction-source emissions provided herein, maximum use of Project construction equipment types and their hours of operation (during grading activity) are limited as follows. Please refer also to Mitigation Measure AQ-3 for additional details.

TABLE 3-14 MAXIMUM DAILY DISTURBED-ACREAGE

Construction Phase	Equipment Type	Equipment Quantity	Acres grader per 8 hour day	Operating Hours per Day	Acres graded per day
Grading	Graders	8	0.5	8	4.0
	Rubber Tired Dozers	8	0.5	8	4.0
	Crawler Tractors	4	0.5	8	2.0
	Scrapers	16	1	8	16
Total acres graded per day during Grading					26.0

DISPERSION MODELING

SCREEN3(32), is a U.S. EPA approved air quality model that contains algorithms associated with the USEPA’s *Screening Procedures for Estimating the Air Quality Impact of Stationary Sources*(33). SCREEN3 was used to calculate localized pollutant concentrations for construction and operational activity. SCREEN3 uses dispersion screening techniques to estimate impacts of point, area, and volume stationary sources. It should be noted that the SCREEN3 model was utilized in lieu of the more robust AERMOD(34) and Industrial Source Complex (ISC)(35) model in order to account for worst-case conditions, and since precise construction phasing information is not available at this time.

For purposes of this analysis, receptors are conservatively assumed to be located at ~25 meters/83 feet north for emissions of CO, PM₁₀, and PM_{2.5}. For emissions of NO₂, discrete receptors were placed at 20, 50, 70, 100, 200, 500, 1000, 2000, 3000, 4000, and 5000 meters from the fence-line of the Project site to account for the change in NO_x to NO₂ conversion as a function of distance.

It should be noted that for PM₁₀ / PM_{2.5}, a discrete receptor was placed at the facility fence-line and the SCAQMD—approved downwind distance equation ($C_x = 0.9403 C_0 e^{-0.0462 X}$) was utilized to predict the concentration at the actual location of the nearest receptor.

- C_x is the predicted PM_{10} concentration at X meters from the fence line.
- C_0 is the PM_{10} concentration at the fence line as estimated by SCREEN3.
- e is the natural logarithm.
- X is the distance in meters from the fence line to the nearest sensitive receptor. (For purposes of this analysis, it is estimated that the nearest sensitive receptor is conservatively located 25 meters/83 feet north from the Project boundary).

For construction, an area source encompassing approximately 13 acres was modeled. The urban option of the model was selected, and receptor height was conservatively set at 2.0 meters (consistent with the document Final Localized Significance Threshold Methodology, SCAQMD, June 2003). For PM_{10} and $PM_{2.5}$ a source release height of 1.0 meters was utilized consistent with SCAQMD methodology. Additionally, for emissions of NO_x and CO released during construction activity, a source release height of 5.0 meters was utilized.

An emissions rate of 1 gram per second was utilized for emissions of CO, PM_{10} , and $PM_{2.5}$ and the output in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) was then multiplied by the emissions rate determined from the CalEEMod model outputs (and averaged over the appropriate time period and disturbance area). For emissions of NO_x, the actual emissions rate (in grams/second/ m^2) was programmed into the model. A summary of calculations from both the SCREEN3 model output and calculations for the actual concentration for each pollutant are available for review in Appendix 3.3.

LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

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(36).

Applicable localized thresholds are as follows:

- California State 1-hour CO standard of 20.0 ppm;
- California State 8-hour CO standard of 9.0 ppm;
- California State 1-hour NO₂ standard of 0.18 ppm;
- SCAQMD 24-hour construction PM_{10} LST of 10.4 $\mu\text{g}/\text{m}^3$; or
- SCAQMD 24-hour construction $PM_{2.5}$ LST of 10.4 $\mu\text{g}/\text{m}^3$

Impacts Without Mitigation

Without mitigation, emissions during grading activity will exceed the SCAQMD's localized significance thresholds for emissions of PM 10 only. Table 3-15 identifies the unmitigated localized impacts at the nearest receptor location in the vicinity. As such, mitigation measures MM AQ-1 through MM AQ-4 are recommended to reduce the severity of the impact.

TABLE 3-15 LOCALIZED SIGNIFICANCE SUMMARY GRADING (WITHOUT MITIGATION)

Grading	CO		NO ₂	PM ₁₀	PM _{2.5}
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	
Peak Day Localized Emissions	0.714	0.517	0.0424	14.20	8.64
Background Concentration ^A	3.0	1.3	0.069		
Total Concentration	3.71	1.82	0.11	14.20	8.64
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
Threshold Exceeded?	NO	NO	NO	YES	NO

^A Highest concentration from the last three years of available data

Note: PM₁₀ and PM_{2.5} concentrations are expressed in µg/m³. All others are expressed in ppm

Impacts With Mitigation

After the implementation of applicable mitigation measures (MM AQ-1 through MM AQ-4), emissions during grading activity will not exceed the SCAQMD's localized significance threshold for any of the applicable emissions. Table 3-16 identifies the mitigated localized impacts at the nearest receptor location in the vicinity of the Project.

TABLE 3-16 LOCALIZED SIGNIFICANCE SUMMARY GRADING (WITH MITIGATION)

Grading	CO		NO ₂	PM ₁₀	PM _{2.5}
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	
Peak Day Localized Emissions	0.494	0.358	0.0179	5.53	3.46
Background Concentration ^A	3.0	1.3	0.069		
Total Concentration	3.49	1.66	0.09	5.53	3.46
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
Threshold Exceeded?	NO	NO	NO	NO	NO

^A Highest concentration from the last three years of available data

Note: PM₁₀ and PM_{2.5} concentrations are expressed in µg/m³. All others are expressed in ppm

3.7 LOCALIZED SIGNIFICANCE – LONG-TERM OPERATIONAL ACTIVITY

For operational, an area source encompassing the project site was modeled, approximately 257.7 acres. The urban option of the model was selected, and receptor height was conservatively set at 2.0 meters (consistent with the document Final Localized Significance Threshold Methodology, SCAQMD, June 2003). For PM₁₀ and PM_{2.5} a source release height of 1.0 meters was utilized consistent with SCAQMD methodology. Additionally, for emissions of NOX and CO released during operational activity, a source release height of 5.0 meters was utilized.

Emissions from on-site activity including area, energy, and on-site equipment were obtained from CalEEMod, emissions from on-site passenger car and truck travel and idling were calculated using EMFAC 2011. A summary of calculations from the SCREEN3 model output for each pollutant are available for review in Appendix 3.2.

Dispersion modeling and receptor distances consistent with construction activity as described above in Section 3.6 were utilized.

LOCALIZED THRESHOLDS FOR OPERATIONAL ACTIVITY

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(36).

Applicable localized thresholds are as follows:

- California State 1-hour CO standard of 20.0 ppm;
- California State 8-hour CO standard of 9.0 ppm;
- California State 1-hour NO₂ standard of 0.18 ppm;
- SCAQMD 24-hour operational PM₁₀ LST of 2.5 µg/m³;
- SCAQMD 24-hour operational PM_{2.5} LST of 2.5 µg/m³.

Impacts Without Mitigation

As Shown on Table 3-17, operational emissions without mitigation would not exceed the SCAQMD's localized significance thresholds for any criteria pollutant at the nearest sensitive receptor. Therefore, the Project will have a less than significant localized impact during operational activity, and no mitigation is required.

TABLE 3-17 LOCALIZED SIGNIFICANCE SUMMARY OPERATIONS (WITHOUT MITIGATION)

Operation	CO		NO ₂	PM ₁₀	PM _{2.5}
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours (Operations)	
Peak Day Localized Emissions	0.062	0.045	0.003	0.332	0.320
Background Concentration ^A	3.0	1.3	0.069		
Total Concentration	3.06	1.35	0.07	0.332	0.320
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	NO	NO	NO	NO	NO

^AHighest concentration from the last three years of available data

Note: PM₁₀ and PM_{2.5} concentrations are expressed in µg/m³. All others are expressed in ppm

Impacts With Mitigation

Although mitigation is not required, with implementation of mitigation measures MM AQ-5 and MM AQ-6, which are intended to reduce regional air quality emissions, localized emissions during operational activity will be further reduced. Table 3-18 summarizes the mitigated localized impacts at the nearest receptor location in the vicinity of the Project.

TABLE 3-18 LOCALIZED SIGNIFICANCE SUMMARY OPERATIONS (WITH MITIGATION)

Operation	CO		NO ₂	PM ₁₀	PM _{2.5}
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours (Operations)	
Peak Day Localized Emissions	0.017	0.012	0.003	0.241	0.232
Background Concentration ^A	3.0	1.3	0.069		
Total Concentration	3.02	1.31	0.07	0.241	0.232
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	NO	NO	NO	NO	NO

^AHighest concentration from the last three years of available data

Note: PM₁₀ and PM_{2.5} concentrations are expressed in µg/m³. All others are expressed in ppm

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.

It has long been recognized that adverse localized CO concentrations (“hot spots”) 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 concentrations in the Project vicinity have steadily declined, as indicated by historical emissions data presented previously at Table 2-3.

A CO “hotspot” 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 (37). As identified within 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 congestion at a particular intersection (38). 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. It can therefore be reasonably concluded that projects (such as the proposed Meredith International Centre) that are not subject to the extremes in vehicle volumes and vehicle congestion that was evidenced in the 2003 Los Angeles hot spot analysis would similarly not create or result in CO hot spots. 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 by 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 (39). The proposed Project considered herein would not produce the volume of traffic required to generate a CO hotspot either in the context of the 2003 Los Angeles hot spot study, or based on representative BAAQMD CO threshold considerations (see Table 3-19). Therefore, CO hotspots are not an environmental impact of concern for the proposed Project.

TABLE 3-19 PROJECT PEAK HOUR TRAFFIC VOLUMES

Intersection Location	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Haven Ave & 4 th St	2,775/3,153	1,818/2,397	726/1,119	1,031/1,304	6,350/7,973
Archibald Ave & Inland Empire Blvd	2,310/2,680	1,945/2,080	570/1,276	655/776	5,480/6,812
Haven Ave & Inland Empire Blvd	4,076/3,636	2,212/2,943	506/869	290/818	7,084/8,266
Archibald Ave & I-10 Fwy Interchange	585/1,792	2,106/2,587	1,413/1,459	1,100/889	5,204/6,727

Source: Meredith International Centre Specific Plan Amendment Traffic Impact Analysis (Linscott Law & Greenspan Engineers, 2014).

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.

The Final 2012 AQMP was adopted by the AQMD Governing Board on December 7, 2012 (10). The 2012 AQMP incorporates the latest scientific and technological information and planning assumptions, including the 2012 Regional Transportation Plan/Sustainable Communities Strategy and updated emission inventory methodologies for various source categories.

Similar to the 2007 AQMP, the 2012 AQMP was based on assumptions provided by both CARB and SCAG in the latest available EMFAC model for the most recent motor vehicle and demographics information, respectively. The air quality levels projected in the 2012 AQMP are based on several assumptions. For example, the 2012 AQMP has assumed that development associated with general plans, specific plans, residential projects, and wastewater facilities will be constructed in accordance with population growth projections identified by SCAG in its 2012 RTP. The 2012 AQMP also has assumed that such development projects will implement strategies to reduce emissions generated during the construction and operational phases of development. The Project's consistency with the 2012 AQMP is discussed as follows:

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) (13). 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

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur LSTs were exceeded. As evaluated as part of the Project LST analysis (previously presented), the Project's mitigated localized construction-source emissions would not exceed applicable LSTs.

Operational Impacts

The Project LST analysis demonstrates that Project operational-source emissions would not exceed applicable LSTs, and would therefore not result in or cause violations of the CAAQS and NAAQS.

On the basis of the preceding discussion, the Project is determined to be consistent 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 2012 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 Ontario 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 Policy Plan (General Plan) component of The Ontario Plan (TOP) currently designates the vast majority of the Project site as "Mixed Use – Meredith," with a zoning designation of "Specific Plan" (SP). Planning Area 1A (the school site) is designated as "Public School" in the Policy Plan Land Use Plan, and is zoned "Public Facility." Amendments to these designations would be necessary to provide for implementation of the Project.

As currently proposed, the SPA is inconsistent with the land use distribution and intensities set forth in the Policy Plan component of The Ontario Plan. The Policy Plan provides for an assumed buildout of the site consisting of 2,930 dwelling units and 7.4 million square feet of office/retail uses. This is far more intense than the Project, which proposes 3 million square feet of industrial uses, 1.1 million square feet of commercial uses, and up to 800 residential units. Notwithstanding, the Project, as proposed, would generate fewer emissions than what is allowed under The Ontario Plan since the proposed development intensity is much less intense than what is set forth in the Policy Plan component of The Ontario Plan.

As such, development proposed by the Project is consistent with the growth projections in The Ontario Plan and is therefore considered to be consistent with the AQMP. Although, Project operational-source emissions would result in exceedances of applicable SCAQMD regional

thresholds, these emissions are assumed to be included in the AQMP. Additionally, Project incorporation of contemporary energy-efficient technologies and operational programs, and compliance with SCAQMD emissions reductions and control requirements act to reduce stationary-source air emissions. These Project attributes and features are consistent with and support AQMP air pollution reduction strategies and promote timely attainment of AQMP air quality standards.

On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.

AQMP Consistency Conclusion

The Project would not result in or cause NAAQS or CAAQS violations. The Project's proposed land use designation for the subject site does not materially affect the uses allowed or increase the development intensities as reflected in the adopted City General Plan. The Project is therefore considered to be consistent with the AQMP.

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 the Project will not exceed the SCAQMD localized significance thresholds during construction (with mitigation). Therefore sensitive receptors would not be subject to a significant air quality impact during Project construction.

Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during operational activity. The proposed Project would not result in a 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.

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 City 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. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances (40).

4 FINDINGS & CONCLUSIONS

4.1 CONSTRUCTION-SOURCE EMISSIONS

REGIONAL IMPACTS

For regional emissions, the Project will exceed the numerical thresholds of significance established by the South Coast Air Quality Management District (SCAQMD) for emissions of Volatile Organic Compounds (VOCs), Nitrogen Oxides (NO_x), Carbon monoxide (CO), and Ultra-Fine Particulates (PM_{2.5}) prior to implementation of applicable mitigation measures (MMs).

The proposed mitigation measures MM AQ-1 through MM AQ-4 are recommended to reduce the severity of the impacts. After implementation of MM AQ-1 through MM AQ-4, construction activity emissions will exceed the numerical thresholds established by the SCAQMD for emissions of VOCs, NO_x, and CO. Notwithstanding, no feasible mitigation measures exist that would reduce these emissions to levels that are less than the aforementioned numeric thresholds.

LOCALIZED IMPACTS

Without MMs, emissions during construction activity will exceed the SCAQMD's localized significance threshold for emissions of PM 10 only. After implementation of MM AQ-1 through MM AQ-4 the emissions resulting from short-term construction activity will not exceed the SCAQMD's localized significance threshold for any criteria pollutant. Therefore, a less than significant impact would occur with implementation of MM AQ-1 through MM AQ-4.

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.

4.2 OPERATIONAL-SOURCE EMISSIONS

REGIONAL IMPACTS

For regional emissions, the Project would exceed the numerical thresholds of significance established by the SCAQMD for emissions of VOCs, NO_x, CO, PM10, and PM2.5. No feasible mitigation measures exist that would reduce these emissions to levels that are less-than-significant. Thus a significant impact would occur even with implementation of the proposed mitigation measure (MM AQ-5). Project operational-source VOCs, NO_x, CO, PM10, and PM2.5 emissions exceedances of applicable SCAQMD regional thresholds are therefore 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.

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 refuse. Moreover, SCAQMD Rule 402 acts to prevent occurrences of odor nuisances (40). Consistent with City 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.

4.3 CONSTRUCTION-SOURCE AIR POLLUTANT EMISSIONS MITIGATION MEASURES

4.3.1 MONITORING OF AND COMPLIANCE WITH STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES (BACMs)

SCAQMD Rules that are currently applicable during construction activity for this Project include but are not limited to: Rule 1113 (Architectural Coatings) (41); Rule 431.2 (Low Sulfur Fuel) (37); Rule 403 (Fugitive Dust) (42); and Rule 1186 / 1186.1 (Street Sweepers) (43). In order to facilitate monitoring and compliance with SCAQMD Rule 403 (Fugitive Dust) during construction activity, Rule 403 is restated as a mitigation measure (MM).

MM AQ-1

- The following measures shall be incorporated into Project plans and specifications as implementation of Rule 403.
- 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.
- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered, with complete coverage of disturbed areas, at least three (3) times daily during dry weather; 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

MM AQ-2

Plans, specifications and contract documents shall note that a sign shall be posted on-site stating that construction workers shall not idle diesel engines in excess of five (5) minutes (45).

4.3.2 OTHER MEASURES

MM AQ-3

During construction activity, all construction equipment (≥ 150 horsepower) shall be California Air Resources Board (CARB) Tier 3 Certified or better. Additionally, during grading activity, total horsepower-hours per day for all equipment shall not exceed 149,840 horsepower-hours per day and the maximum disturbance (actively graded) area shall not exceed 26 acres per day.

MM AQ-4

Only “Zero-Volatile Organic Compounds” paints (no more than 150 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.

4.4 OPERATIONAL-SOURCE AIR POLLUTANT EMISSIONS MITIGATION MEASURES

MM AQ-5

Prior to the issuance of building permits, the Project Applicant shall submit energy demand calculations to the City (Planning and Building Departments) demonstrating that the increment of the Project for which building permits are being requested would achieve a minimum 5% increase in energy efficiencies beyond incumbent California Building Code Title 24 performance standards. Representative energy efficiency/energy conservation measures to be incorporated in the Project would include, but would not be not limited to, those listed below (it being understood that the items listed below are not all required and merely present examples; the list is not all-inclusive and other features that would reduce energy consumption and promote energy conservation would also be acceptable):

- Increase in insulation such that heat transfer and thermal bridging is minimized;
- Limit air leakage through the structure and/or within the heating and cooling distribution system;
- Use of energy-efficient space heating and cooling equipment;
- Installation of electrical hook-ups at loading dock areas;
- Installation of dual-paned or other energy efficient windows;
- Use of interior and exterior energy efficient lighting that exceeds then incumbent California Title 24 Energy Efficiency performance standards;
- Installation of automatic devices to turn off lights where they are not needed;
- Application of a paint and surface color palette that emphasizes light and off-white colors that reflect heat away from buildings;
- Design of buildings with “cool roofs” using products certified by the Cool Roof Rating Council, and/or exposed roof surfaces using light and off-white colors;
- Design of buildings to accommodate photo-voltaic solar electricity systems or the installation of photo-voltaic solar electricity systems;

- Installation of ENERGY STAR-qualified energy-efficient appliances, heating and cooling systems, office equipment, and/or lighting products;

5 REFERENCES

1. **South Coast Air Quality Management District.** Southern California Air Basins. [Online] [Cited: November 13, 2013.] <http://www.aqmd.gov/map/mapaqmd1.pdf>.
2. **Environmental Protection Agency.** National Ambient Air Quality Standards (NAAQS). [Online] 1990. [Cited: November 13, 2013.] <http://www.epa.gov/air/criteria.html>.
3. **Air Resources Board.** California Ambient Air Quality Standards (CAAQS). [Online] 2009. [Cited: November 13, 2013.] <http://www.arb.ca.gov/research/aaqs/caaqs/caaqs.htm>.
4. **Environmental Protection Agency.** Monitor Values Report. [Online] [Cited: November 13, 2013.] http://www.epa.gov/airdata/ad_rep_mon.html.
5. **Air Resources Board.** Air Quality Standards and Area Designations. [Online] 2012. [Cited: November 13, 2013.] <http://www.arb.ca.gov/desig/desig.htm>.
6. **Environmental Protection Agency.** Currently Designated Nonattainment Areas for All Criteria Pollutants. [Online] 2013. <http://www.epa.gov/oaqps001/greenbk/ancl.html>.
7. **South Coast Air Quality Management District.** *Air Quality Reporting*. [pdf] Diamond Bar : Sierra Wade Associates, 1999.
8. **Air Resources Board.** [Online] [Cited: November 13, 2013.] <http://www.arb.ca.gov/adam/select8/sc8start.php>.
9. **Environmental Protection Agency.** Air Pollution and the Clean Air Act. [Online] [Cited: November 13, 2013.] <http://www.epa.gov/air/caa/>.
10. **South Coast Air Quality Management District.** 2012 Air Quality Management Plan (AQMP). [Online] 2012. [Cited: November 13, 2013.] <http://www.aqmd.gov/aqmp/2012aqmp/draft/index.html>.
11. —. *Air Quality Management Plan*. 2012.
12. **California Air Resources Board.** *The California Almanac of Emissions and Air Quality*. 2009.
13. **South coast Air Quality Management District.** CEQA Air Quality Handbook (1993). [Online] 1993. [Cited: November 13, 2013.] <http://www.aqmd.gov/ceqa/oldhdbk.html>.
14. **American Lung Association.** What's the State of Your Air. [Online] <http://www.lung.org/associations/states/california/assets/pdfs/sota/south-coast-fact-sheet.pdf>.
15. **Air Resources Board.** ARB's Drayage Truck Regulatory Activities. [Online] <http://www.arb.ca.gov/msprog/onroad/porttruck/porttruck.htm>.
16. —. Truck and Bus Regulation. *On-Road Heavy-Duty Diesel Vehicles (In-Use) Regulation*. [Online] <http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm>.
17. **The Port of Los Angeles.** Clean Truck Program. [Online] http://www.portoflosangeles.org/ctp/idx_ctp.asp.
18. **Air Resources Board.** Mobile Source Emission Inventory -- Current Methods and Data. [Online] <http://www.arb.ca.gov/msei/modeling.htm>.
19. **South Coast Air Quality Management District.** Multiple Air Toxics Exposure Study III Model Estimated Carcinogenic Risk. [Online] 2008. <http://www3.aqmd.gov/webappl/matesiii/>.
20. —. Greenhouse Gases (GHG) CEQA Significance Thresholds. [Online] [Cited: November 13, 2013.] <http://www.aqmd.gov/ceqa/handbook/GHG/GHG.html>.

21. —. California Emissions Estimator Model. [Online] 2013. [Cited: November 13, 2013.] <http://www.caleemod.com/>.
22. **Linscott Law & Greenspan Engineers.** *Meredith International Centre Specific Plan Amendment Traffic Impact Analysis.* 2014.
23. **South Coast Air Quality Management District.** *Warehouse Truck Trip Study.* 2014.
24. —. Review of the Draft Environmental Impact Report (Draft EIR) for the Oakmount Olive Grove Project. [Online] June 2, 2010. <http://www.aqmd.gov/ceqa/igr/2010/June/DEIROakmont.pdf>.
25. **Applied Planning.** *Westridge Commerce Center Final Environmental Impact Report.* 2011.
26. **Michael Brandman and Associates.** *Environmental Impact Report (EIR) Highland Fairview Corporate Park.*
27. **First Carbon Solutions.** *Environmental Impact Report Sierra Industrial Warehouse Project.* 2013.
28. **South Coast Air Quality Management District.** *SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results.* 2014.
29. —. *Localized Significance Thresholds Methodology.* s.l. : South Coast Air Quality Management District, 2003.
30. —. *Localized Significance Thresholds Methodology.* s.l. : South Coast Air Quality Management District, 2003.
31. —. *Localized Significance Thresholds Methodology.* s.l. : South Coast Air Quality Management District, 2003.
32. **Environmental Protection Agency.** *SCREEN3 Model User's Guide.* 1995.
33. —. *Screening Procedures for Estimating the Air Quality Impact of Stationary Sources, Revised.* 1992.
34. **United States Environmental Protection Agency.** *AERMOD: Description of Model Formulation.* 2004.
35. —. *User's Guide for the Industrial Source Complex (ISC3) Dispersion Models.* 1995.
36. **South Coast Air Quality Management District.** *SCAQMD Air Quality Significance Thresholds.* [Online] March 2011. [Cited: December 6, 2013.] <http://aqmd.gov/ceqa/handbook/signthres.pdf>.
37. —. RULE 431.2. Sulfur Content of Liquid Fuels. [Online] <http://www.aqmd.gov/rules/siprules/sr431-2.pdf>.
38. —. 2003 Air Quality Management Plan. [Online] 2003. <http://www.aqmd.gov/aqmp/aqmd03aqmp.htm>.
39. **Bay Area Air Quality Management District.** [Online] <http://www.baaqmd.gov/>.
40. **South Coast Air Quality Management District.** RULE 402. Nuisance. [Online] May 7, 1976. [Cited: November 13, 2013.] <http://www.aqmd.gov/rules/reg/reg04/r402.pdf>.
41. —. RULE 1113. Architectural Coatings. [Online] <http://www.aqmd.gov/rules/reg/reg11/r1113.pdf>.
42. —. RULE 403. Fugitive Dust. [Online] <http://www.aqmd.gov/rules/reg/reg04/r403.pdf>.
43. —. RULE 1186. PM10 Emissions From Paved and Unpaved Roads, and Livestock Operations. [Online] <http://www.aqmd.gov/rules/reg/reg11/r1186.pdf>.
44. **State of California.** California Code of Regulations. *Department of Industrial Relations.* [Online] <http://www.dir.ca.gov/dlse/ccr.htm>.
45. **Building Standards Commission.** CALGreen. [Online] 2010. [Cited: November 13, 2013.] <http://www.bsc.ca.gov/home/calgreen.aspx>.

6 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Meredith International Centre Specific Plan Amendment Project. The information contained in this air quality impact report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 660-1994 ext. 217.

Haseeb Qureshi
Senior Associate
URBAN CROSSROADS, INC.
41 Corporate Park, Suite 300
Irvine, CA 92606
(949) 660-1994 x217
hqureshi@urbanxroads.com

EDUCATION

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

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

PROFESSIONAL AFFILIATIONS

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

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013
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

This page intentionally left blank

APPENDIX 3.1:
CALEEMOD EMISSIONS MODEL OUTPUTS

CALEEMOD EMISSIONS MODEL OUTPUTS

EXISTING LAND USE EMISSIONS

Planning Area 5 Existing Development (2014 Operations)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	13.00	1000sqft	0.30	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2014
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	569.24	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - Construction emissions modeled separately

Off-road Equipment - Construction emissions modeled separately

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Energy Mitigation -

Water Mitigation -

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,200 gpd/ac

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblEnergyUse	T24E	5.60	4.38
tblEnergyUse	T24NG	2.02	1.68
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	569.24
tblWater	IndoorWaterUseRate	962,942.78	2,168,100.00
tblWater	OutdoorWaterUseRate	590,190.74	0.00

2.0 Emissions Summary

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	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Energy	7.6000e-004	6.9100e-003	5.8100e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.2965	8.2965	1.6000e-004	1.5000e-004	8.3470
Mobile	2.8071	6.8463	27.6033	0.0456	2.9783	0.0999	3.0782	0.7953	0.0917	0.8870		4,228.3713	4,228.3713	0.1856		4,232.2691
Total	3.1479	6.8533	27.6105	0.0457	2.9783	0.1005	3.0787	0.7953	0.0923	0.8875		4,236.6707	4,236.6707	0.1858	1.5000e-004	4,240.6192

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	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Energy	7.3000e-004	6.6200e-003	5.5600e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9446	7.9446	1.5000e-004	1.5000e-004	7.9929
Mobile	2.8071	6.8463	27.6033	0.0456	2.9783	0.0999	3.0782	0.7953	0.0917	0.8870		4,228.3713	4,228.3713	0.1856		4,232.2691
Total	3.1479	6.8530	27.6103	0.0457	2.9783	0.1004	3.0787	0.7953	0.0922	0.8875		4,236.3187	4,236.3187	0.1858	1.5000e-004	4,240.2651

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.01	0.01	0.01	0.00	0.01

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	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
Demolition	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 Demolition - 2015

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	0.0000	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

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 Demolition - 2015

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	0.0000	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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	2.8071	6.8463	27.6033	0.0456	2.9783	0.0999	3.0782	0.7953	0.0917	0.8870		4,228.371 3	4,228.371 3	0.1856		4,232.269 1
Unmitigated	2.8071	6.8463	27.6033	0.0456	2.9783	0.0999	3.0782	0.7953	0.0917	0.8870		4,228.371 3	4,228.371 3	0.1856		4,232.269 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	558.22	649.61	328.12	1,164,484	1,164,484
Total	558.22	649.61	328.12	1,164,484	1,164,484

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.477446	0.065927	0.171594	0.156638	0.055185	0.009062	0.015877	0.037321	0.001132	0.001346	0.004831	0.000736	0.002906

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.3000e-004	6.6200e-003	5.5600e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9446	7.9446	1.5000e-004	1.5000e-004	7.9929
NaturalGas Unmitigated	7.6000e-004	6.9100e-003	5.8100e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.2965	8.2965	1.6000e-004	1.5000e-004	8.3470

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					
Regional Shopping Center	70.5205	7.6000e-004	6.9100e-003	5.8100e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.2965	8.2965	1.6000e-004	1.5000e-004	8.3470
Total		7.6000e-004	6.9100e-003	5.8100e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.2965	8.2965	1.6000e-004	1.5000e-004	8.3470

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	0.0675288	7.3000e-004	6.6200e-003	5.5600e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9446	7.9446	1.5000e-004	1.5000e-004	7.9929
Total		7.3000e-004	6.6200e-003	5.5600e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9446	7.9446	1.5000e-004	1.5000e-004	7.9929

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	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Unmitigated	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Consumer Products	0.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4000e-004	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Architectural Coating	0.0825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003

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					
Consumer Products	0.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4000e-004	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Architectural Coating	0.0825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 Vegetation

Planning Area 5 Existing Development (2014 Operations)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	13.00	1000sqft	0.30	13,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2014
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	569.24	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - Construction emissions modeled separately

Off-road Equipment - Construction emissions modeled separately

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Energy Mitigation -

Water Mitigation -

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,200 gpd/ac

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblEnergyUse	T24E	5.60	4.38
tblEnergyUse	T24NG	2.02	1.68
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	569.24
tblWater	IndoorWaterUseRate	962,942.78	2,168,100.00
tblWater	OutdoorWaterUseRate	590,190.74	0.00

2.0 Emissions Summary

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	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Energy	7.6000e-004	6.9100e-003	5.8100e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.2965	8.2965	1.6000e-004	1.5000e-004	8.3470
Mobile	2.7362	7.1424	26.2321	0.0425	2.9783	0.1009	3.0792	0.7953	0.0926	0.8879		3,947.1190	3,947.1190	0.1858		3,951.0213
Total	3.0770	7.1493	26.2393	0.0425	2.9783	0.1014	3.0797	0.7953	0.0932	0.8884		3,955.4184	3,955.4184	0.1860	1.5000e-004	3,959.3713

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	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Energy	7.3000e-004	6.6200e-003	5.5600e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9446	7.9446	1.5000e-004	1.5000e-004	7.9929
Mobile	2.7362	7.1424	26.2321	0.0425	2.9783	0.1009	3.0792	0.7953	0.0926	0.8879		3,947.1190	3,947.1190	0.1858		3,951.0213
Total	3.0770	7.1490	26.2390	0.0425	2.9783	0.1014	3.0797	0.7953	0.0931	0.8884		3,955.0664	3,955.0664	0.1860	1.5000e-004	3,959.0172

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.01	0.01	0.01	0.00	0.01

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	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
Demolition	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 Demolition - 2015

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	0.0000	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

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 Demolition - 2015

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	0.0000	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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	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	2.7362	7.1424	26.2321	0.0425	2.9783	0.1009	3.0792	0.7953	0.0926	0.8879		3,947.1190	3,947.1190	0.1858		3,951.0213
Unmitigated	2.7362	7.1424	26.2321	0.0425	2.9783	0.1009	3.0792	0.7953	0.0926	0.8879		3,947.1190	3,947.1190	0.1858		3,951.0213

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	558.22	649.61	328.12	1,164,484	1,164,484
Total	558.22	649.61	328.12	1,164,484	1,164,484

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.477446	0.065927	0.171594	0.156638	0.055185	0.009062	0.015877	0.037321	0.001132	0.001346	0.004831	0.000736	0.002906

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.3000e-004	6.6200e-003	5.5600e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9446	7.9446	1.5000e-004	1.5000e-004	7.9929
NaturalGas Unmitigated	7.6000e-004	6.9100e-003	5.8100e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.2965	8.2965	1.6000e-004	1.5000e-004	8.3470

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					
Regional Shopping Center	70.5205	7.6000e-004	6.9100e-003	5.8100e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.2965	8.2965	1.6000e-004	1.5000e-004	8.3470
Total		7.6000e-004	6.9100e-003	5.8100e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		8.2965	8.2965	1.6000e-004	1.5000e-004	8.3470

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	0.0675288	7.3000e-004	6.6200e-003	5.5600e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9446	7.9446	1.5000e-004	1.5000e-004	7.9929
Total		7.3000e-004	6.6200e-003	5.5600e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9446	7.9446	1.5000e-004	1.5000e-004	7.9929

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	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Unmitigated	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4000e-004	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Total	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003

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					
Consumer Products	0.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4000e-004	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003
Architectural Coating	0.0825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3401	1.0000e-005	1.3900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		2.8500e-003	2.8500e-003	1.0000e-005		3.0200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 Vegetation

CALEEMOD EMISSIONS MODEL OUTPUTS
CONSTRUCTION (PLANNING AREA 1B)

Merideth International Centre (Planning Area 1B Construction)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0
Unrefrigerated Warehouse-No Rail	2,386.97	1000sqft	54.80	2,386,973.00	0
Other Asphalt Surfaces	6.44	Acre	6.44	280,526.40	0
Regional Shopping Center	86.00	1000sqft	1.97	86,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.47	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on information provided by the applicant

Construction Phase - based on a 2017 opening year

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - Equipment adjusted to account for Project realignment activities during PA1 construction activities

Trips and VMT -

Grading -

Architectural Coating -

Vehicle Trips - no operational emissions modeled

Vehicle Emission Factors - no operational emissions modeled

Vehicle Emission Factors - no operational emissions modeled

Vehicle Emission Factors - no operational emissions modeled

Area Coating -

Energy Use - no operational emissions modeled

Water And Wastewater - no operational emissions modeled

Solid Waste - no operational emissions modeled

Construction Off-road Equipment Mitigation - tier 3 mitigation to all equipment greater than 150 HP

Area Mitigation - 150g/L low VOC Paints

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	260.00
tblConstructionPhase	NumDays	1,550.00	475.00
tblConstructionPhase	NumDays	155.00	45.00
tblConstructionPhase	NumDays	110.00	45.00
tblConstructionPhase	PhaseEndDate	10/26/2018	12/29/2017
tblConstructionPhase	PhaseEndDate	3/2/2018	12/29/2017
tblConstructionPhase	PhaseStartDate	10/28/2017	1/1/2017
tblConstructionPhase	PhaseStartDate	12/30/2017	10/28/2017
tblEnergyUse	LightingElect	3.36	0.00
tblEnergyUse	LightingElect	7.62	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	0.30	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	2.69	0.00
tblEnergyUse	T24E	5.60	0.00
tblEnergyUse	T24E	0.45	0.00
tblEnergyUse	T24NG	16.16	0.00
tblEnergyUse	T24NG	2.02	0.00

tblEnergyUse	T24NG	2.11	0.00
tblGrading	AcresOfGrading	900.00	450.00
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblLandUse	LandUseSquareFeet	2,386,970.00	2,386,973.00
tblOffRoadEquipment	HorsePower	122.00	189.00
tblOffRoadEquipment	LoadFactor	0.44	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	768.84	0.00

tblSolidWaste	SolidWasteGenerationRate	90.30	0.00
tblSolidWaste	SolidWasteGenerationRate	2,243.75	0.00
tblTripsAndVMT	WorkerTripNumber	115.00	58.00
tblTripsAndVMT	WorkerTripNumber	60.00	30.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	ST_TR	1.32	0.00

tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	2.59	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	2.59	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	42.94	0.00
tblVehicleTrips	WD_TR	2.59	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	143,381,937.50	0.00
tblWater	IndoorWaterUseRate	6,370,236.85	0.00
tblWater	IndoorWaterUseRate	551,986,812.50	0.00

tblWater	OutdoorWaterUseRate	3,904,338.71	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					
2015	49.1610	588.4264	356.8390	0.4498	59.4300	26.3062	85.7362	27.7988	24.2017	52.0005	0.0000	47,087.94 22	47,087.94 22	13.8848	0.0000	47,379.52 31
2016	46.9266	555.8827	341.7199	0.4495	59.4300	24.7637	84.1937	27.7988	22.7826	50.5814	0.0000	46,555.32 57	46,555.32 57	13.8721	0.0000	46,846.63 95
2017	330.2528	206.4790	262.2294	0.5218	22.3648	11.1879	33.5527	6.0018	10.6519	16.6537	0.0000	46,854.53 02	46,854.53 02	4.3547	0.0000	46,945.97 78
Total	426.3404	1,350.788 0	960.7882	1.4211	141.2248	62.2578	203.4826	61.5995	57.6361	119.2356	0.0000	140,497.7 980	140,497.7 980	32.1116	0.0000	141,172.1 404

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					
2015	15.0487	249.6063	248.0654	0.4498	23.5732	10.2517	33.8249	10.9464	10.0062	20.9527	0.0000	47,087.94 21	47,087.94 21	13.8848	0.0000	47,379.52 31
2016	22.0565	242.8846	246.2298	0.4495	23.5732	9.8992	33.4723	10.9464	9.6819	20.6283	0.0000	46,555.32 56	46,555.32 56	13.8721	0.0000	46,846.63 94
2017	327.1971	176.4115	263.7238	0.5218	22.3648	9.7404	32.1052	6.0018	9.3690	15.3708	0.0000	46,854.53 02	46,854.53 02	4.3547	0.0000	46,945.97 78
Total	364.3023	668.9024	758.0190	1.4211	69.5111	29.8914	99.4024	27.8947	29.0571	56.9518	0.0000	140,497.7 979	140,497.7 979	32.1116	0.0000	141,172.1 403

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	14.55	50.48	21.10	0.00	50.78	51.99	51.15	54.72	49.59	52.24	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	88.2465	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
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	88.2465	3.0600e-003	0.3224	2.0000e-005	0.0000	1.1600e-003	1.1600e-003	0.0000	1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003	0.0000	0.7180

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	79.6787	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
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	79.6787	3.0600e-003	0.3224	2.0000e-005	0.0000	1.1600e-003	1.1600e-003	0.0000	1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003	0.0000	0.7180

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	9.71	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	11/1/2015	1/1/2016	5	45	
2	Building Construction	Building Construction	1/2/2016	10/27/2017	5	475	
3	Architectural Coating	Architectural Coating	1/1/2017	12/29/2017	5	260	
4	Paving	Paving	10/28/2017	12/29/2017	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 450

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,060,290; Non-Residential Outdoor: 1,686,763 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	8	8.00	174	0.41
Grading	Off-Highway Tractors	6	8.00	189	0.50
Grading	Rubber Tired Dozers	8	8.00	255	0.40
Grading	Scrapers	16	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	6	8.00	226	0.29
Building Construction	Forklifts	10	8.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Paving	Pavers	8	8.00	125	0.42
Paving	Paving Equipment	8	8.00	130	0.36
Paving	Rollers	8	8.00	80	0.38

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
Grading	46	58.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	34	1,408.00	553.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	12	282.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	24	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2015

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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	48.8819	588.0878	352.3958	0.4416		26.3011	26.3011		24.1970	24.1970		46,385.41 54	46,385.41 54	13.8480		46,676.22 30
Total	48.8819	588.0878	352.3958	0.4416	58.7817	26.3011	85.0828	27.6269	24.1970	51.8240		46,385.41 54	46,385.41 54	13.8480		46,676.22 30

3.2 Grading - 2015

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	0.2791	0.3386	4.4432	8.1500e-003	0.6483	5.0700e-003	0.6534	0.1719	4.6400e-003	0.1766		702.5268	702.5268	0.0368		703.3001
Total	0.2791	0.3386	4.4432	8.1500e-003	0.6483	5.0700e-003	0.6534	0.1719	4.6400e-003	0.1766		702.5268	702.5268	0.0368		703.3001

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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000			0.0000
Off-Road	14.7696	249.2677	243.6222	0.4416		10.2467	10.2467		10.0016	10.0016	0.0000	46,385.4153	46,385.4153	13.8480		46,676.2230
Total	14.7696	249.2677	243.6222	0.4416	22.9249	10.2467	33.1715	10.7745	10.0016	20.7761	0.0000	46,385.4153	46,385.4153	13.8480		46,676.2230

3.2 Grading - 2015

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	0.2791	0.3386	4.4432	8.1500e-003	0.6483	5.0700e-003	0.6534	0.1719	4.6400e-003	0.1766		702.5268	702.5268	0.0368		703.3001
Total	0.2791	0.3386	4.4432	8.1500e-003	0.6483	5.0700e-003	0.6534	0.1719	4.6400e-003	0.1766		702.5268	702.5268	0.0368		703.3001

3.2 Grading - 2016

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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	46.6771	555.5795	337.7246	0.4413		24.7589	24.7589		22.7782	22.7782		45,878.01 46	45,878.01 46	13.8384		46,168.62 17
Total	46.6771	555.5795	337.7246	0.4413	58.7817	24.7589	83.5406	27.6269	22.7782	50.4051		45,878.01 46	45,878.01 46	13.8384		46,168.62 17

3.2 Grading - 2016

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	0.2495	0.3032	3.9953	8.1500e-003	0.6483	4.8100e-003	0.6531	0.1719	4.4200e-003	0.1764		677.3111	677.3111	0.0337			678.0177
Total	0.2495	0.3032	3.9953	8.1500e-003	0.6483	4.8100e-003	0.6531	0.1719	4.4200e-003	0.1764		677.3111	677.3111	0.0337			678.0177

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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000				0.0000
Off-Road	14.2728	242.5814	242.2345	0.4413		9.8944	9.8944		9.6775	9.6775	0.0000	45,878.0145	45,878.0145	13.8384			46,168.6217
Total	14.2728	242.5814	242.2345	0.4413	22.9249	9.8944	32.8192	10.7745	9.6775	20.4520	0.0000	45,878.0145	45,878.0145	13.8384			46,168.6217

3.2 Grading - 2016

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	0.2495	0.3032	3.9953	8.1500e-003	0.6483	4.8100e-003	0.6531	0.1719	4.4200e-003	0.1764		677.3111	677.3111	0.0337			678.0177
Total	0.2495	0.3032	3.9953	8.1500e-003	0.6483	4.8100e-003	0.6531	0.1719	4.4200e-003	0.1764		677.3111	677.3111	0.0337			678.0177

3.3 Building Construction - 2016

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	14.8008	129.8201	77.7563	0.1167		8.3854	8.3854		7.8684	7.8684		11,663.4499	11,663.4499	2.9456			11,725.3080
Total	14.8008	129.8201	77.7563	0.1167		8.3854	8.3854		7.8684	7.8684		11,663.4499	11,663.4499	2.9456			11,725.3080

3.3 Building Construction - 2016

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	4.6868	48.2964	54.8702	0.1202	3.4743	0.7994	4.2737	0.9919	0.7351	1.7271		12,057.6826	12,057.6826	0.0868			12,059.5057
Worker	6.0568	7.3607	96.9890	0.1979	15.7381	0.1168	15.8549	4.1738	0.1073	4.2811		16,442.3105	16,442.3105	0.8169			16,459.4652
Total	10.7436	55.6571	151.8591	0.3181	19.2124	0.9162	20.1286	5.1658	0.8424	6.0082		28,499.9930	28,499.9930	0.9037			28,518.9709

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	11.3129	94.7214	77.8798	0.1167		6.6730	6.6730		6.3418	6.3418	0.0000	11,663.4499	11,663.4499	2.9456			11,725.3080
Total	11.3129	94.7214	77.8798	0.1167		6.6730	6.6730		6.3418	6.3418	0.0000	11,663.4499	11,663.4499	2.9456			11,725.3080

3.3 Building Construction - 2016

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	4.6868	48.2964	54.8702	0.1202	3.4743	0.7994	4.2737	0.9919	0.7351	1.7271		12,057.6826	12,057.6826	0.0868			12,059.5057
Worker	6.0568	7.3607	96.9890	0.1979	15.7381	0.1168	15.8549	4.1738	0.1073	4.2811		16,442.3105	16,442.3105	0.8169			16,459.4652
Total	10.7436	55.6571	151.8591	0.3181	19.2124	0.9162	20.1286	5.1658	0.8424	6.0082		28,499.9930	28,499.9930	0.9037			28,518.9709

3.3 Building Construction - 2017

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	13.4492	119.6804	75.7123	0.1167		7.5665	7.5665		7.0982	7.0982		11,530.6743	11,530.6743	2.8965			11,591.4998
Total	13.4492	119.6804	75.7123	0.1167		7.5665	7.5665		7.0982	7.0982		11,530.6743	11,530.6743	2.8965			11,591.4998

3.3 Building Construction - 2017

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	4.3291	43.9169	52.0588	0.1200	3.4746	0.7131	4.1877	0.9920	0.6558	1.6479		11,859.28 35	11,859.28 35	0.0839			11,861.04 51
Worker	5.3817	6.5995	87.1204	0.1979	15.7381	0.1125	15.8506	4.1738	0.1037	4.2775		15,797.42 98	15,797.42 98	0.7489			15,813.15 63
Total	9.7108	50.5164	139.1792	0.3179	19.2127	0.8256	20.0382	5.1659	0.7596	5.9254		27,656.71 33	27,656.71 33	0.8328			27,674.20 15

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	10.3935	89.6129	77.2067	0.1167		6.1190	6.1190		5.8153	5.8153	0.0000	11,530.67 43	11,530.67 43	2.8965			11,591.49 98
Total	10.3935	89.6129	77.2067	0.1167		6.1190	6.1190		5.8153	5.8153	0.0000	11,530.67 43	11,530.67 43	2.8965			11,591.49 98

3.3 Building Construction - 2017

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	4.3291	43.9169	52.0588	0.1200	3.4746	0.7131	4.1877	0.9920	0.6558	1.6479		11,859.28 35	11,859.28 35	0.0839			11,861.04 51
Worker	5.3817	6.5995	87.1204	0.1979	15.7381	0.1125	15.8506	4.1738	0.1037	4.2775		15,797.42 98	15,797.42 98	0.7489			15,813.15 63
Total	9.7108	50.5164	139.1792	0.3179	19.2127	0.8256	20.0382	5.1659	0.7596	5.9254		27,656.71 33	27,656.71 33	0.8328			27,674.20 15

3.4 Architectural Coating - 2017

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	300.6980					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	5.3170	34.9604	29.8891	0.0475		2.7734	2.7734		2.7734	2.7734		4,503.168 8	4,503.168 8	0.4754			4,513.152 9
Total	306.0150	34.9604	29.8891	0.0475		2.7734	2.7734		2.7734	2.7734		4,503.168 8	4,503.168 8	0.4754			4,513.152 9

3.4 Architectural Coating - 2017

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	1.0779	1.3218	17.4488	0.0396	3.1521	0.0225	3.1746	0.8360	0.0208	0.8567		3,163.973 9	3,163.973 9	0.1500			3,167.123 6
Total	1.0779	1.3218	17.4488	0.0396	3.1521	0.0225	3.1746	0.8360	0.0208	0.8567		3,163.973 9	3,163.973 9	0.1500			3,167.123 6

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	300.6980					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	5.3170	34.9604	29.8891	0.0475		2.7734	2.7734		2.7734	2.7734	0.0000	4,503.168 8	4,503.168 8	0.4754			4,513.152 9
Total	306.0150	34.9604	29.8891	0.0475		2.7734	2.7734		2.7734	2.7734	0.0000	4,503.168 8	4,503.168 8	0.4754			4,513.152 9

3.4 Architectural Coating - 2017

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	1.0779	1.3218	17.4488	0.0396	3.1521	0.0225	3.1746	0.8360	0.0208	0.8567		3,163.9739	3,163.9739	0.1500			3,167.1236
Total	1.0779	1.3218	17.4488	0.0396	3.1521	0.0225	3.1746	0.8360	0.0208	0.8567		3,163.9739	3,163.9739	0.1500			3,167.1236

3.5 Paving - 2017

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	7.6295	81.1856	58.9081	0.0892		4.5536	4.5536		4.1893	4.1893		9,124.2352	9,124.2352	2.7957			9,182.9438
Paving	0.3750					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	8.0045	81.1856	58.9081	0.0892		4.5536	4.5536		4.1893	4.1893		9,124.2352	9,124.2352	2.7957			9,182.9438

3.5 Paving - 2017

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	0.1147	0.1406	1.8563	4.2200e-003	0.3353	2.4000e-003	0.3377	0.0889	2.2100e-003	0.0911		336.5930	336.5930	0.0160			336.9281
Total	0.1147	0.1406	1.8563	4.2200e-003	0.3353	2.4000e-003	0.3377	0.0889	2.2100e-003	0.0911		336.5930	336.5930	0.0160			336.9281

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	7.6295	81.1856	58.9081	0.0892		4.5536	4.5536		4.1893	4.1893	0.0000	9,124.2352	9,124.2352	2.7957			9,182.9438
Paving	0.3750					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	8.0045	81.1856	58.9081	0.0892		4.5536	4.5536		4.1893	4.1893	0.0000	9,124.2352	9,124.2352	2.7957			9,182.9438

3.5 Paving - 2017

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	0.1147	0.1406	1.8563	4.2200e-003	0.3353	2.4000e-003	0.3377	0.0889	2.2100e-003	0.0911		336.5930	336.5930	0.0160		336.9281
Total	0.1147	0.1406	1.8563	4.2200e-003	0.3353	2.4000e-003	0.3377	0.0889	2.2100e-003	0.0911		336.5930	336.5930	0.0160		336.9281

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	0.00	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	16.30	64.70	19.00	54	35	11
Unrefrigerated Warehouse-No	0.00	0.00	0.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	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
Unrefrigerated Warehouse-No Pail	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
General Light Industry	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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	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
Unrefrigerated Warehouse-No Paint	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
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	79.6787	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
Unmitigated	88.2465	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180

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	21.4196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	66.7958					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0311	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
Total	88.2465	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180

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	12.8517					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	66.7958					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0311	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
Total	79.6787	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180

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 Vegetation

Merideth International Centre (Planning Area 1B Construction)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0
Unrefrigerated Warehouse-No Rail	2,386.97	1000sqft	54.80	2,386,973.00	0
Other Asphalt Surfaces	6.44	Acre	6.44	280,526.40	0
Regional Shopping Center	86.00	1000sqft	1.97	86,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.47	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on information provided by the applicant

Construction Phase - based on a 2017 opening year

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - Equipment adjusted to account for Project realignment activities during PA1 construction activities

Trips and VMT -

Grading -

Architectural Coating -

Vehicle Trips - no operational emissions modeled

Vehicle Emission Factors - no operational emissions modeled

Vehicle Emission Factors - no operational emissions modeled

Vehicle Emission Factors - no operational emissions modeled

Area Coating -

Energy Use - no operational emissions modeled

Water And Wastewater - no operational emissions modeled

Solid Waste - no operational emissions modeled

Construction Off-road Equipment Mitigation - tier 3 mitigation to all equipment greater than 150 HP

Area Mitigation - 150g/L low VOC Paints

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	16.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	260.00
tblConstructionPhase	NumDays	1,550.00	475.00
tblConstructionPhase	NumDays	155.00	45.00
tblConstructionPhase	NumDays	110.00	45.00
tblConstructionPhase	PhaseEndDate	10/26/2018	12/29/2017
tblConstructionPhase	PhaseEndDate	3/2/2018	12/29/2017
tblConstructionPhase	PhaseStartDate	10/28/2017	1/1/2017
tblConstructionPhase	PhaseStartDate	12/30/2017	10/28/2017
tblEnergyUse	LightingElect	3.36	0.00
tblEnergyUse	LightingElect	7.62	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	NT24NG	0.30	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	2.69	0.00
tblEnergyUse	T24E	5.60	0.00
tblEnergyUse	T24E	0.45	0.00
tblEnergyUse	T24NG	16.16	0.00
tblEnergyUse	T24NG	2.02	0.00

tblEnergyUse	T24NG	2.11	0.00
tblGrading	AcresOfGrading	900.00	450.00
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblLandUse	LandUseSquareFeet	2,386,970.00	2,386,973.00
tblOffRoadEquipment	HorsePower	122.00	189.00
tblOffRoadEquipment	LoadFactor	0.44	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	16.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	768.84	0.00

tblSolidWaste	SolidWasteGenerationRate	90.30	0.00
tblSolidWaste	SolidWasteGenerationRate	2,243.75	0.00
tblTripsAndVMT	WorkerTripNumber	115.00	58.00
tblTripsAndVMT	WorkerTripNumber	60.00	30.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	ST_TR	1.32	0.00

tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	2.59	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	2.59	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	42.94	0.00
tblVehicleTrips	WD_TR	2.59	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	143,381,937.50	0.00
tblWater	IndoorWaterUseRate	6,370,236.85	0.00
tblWater	IndoorWaterUseRate	551,986,812.50	0.00

tblWater	OutdoorWaterUseRate	3,904,338.71	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					
2015	49.1448	588.4499	356.2062	0.4490	59.4300	26.3062	85.7362	27.7988	24.2017	52.0005	0.0000	47,025.44 43	47,025.44 43	13.8848	0.0000	47,317.02 52
2016	46.9115	555.9034	341.1415	0.4488	59.4300	24.7637	84.1937	27.7988	22.7826	50.5814	0.0000	46,494.98 26	46,494.98 26	13.8721	0.0000	46,786.29 64
2017	330.1126	208.1690	254.9491	0.4994	22.3648	11.1948	33.5595	6.0018	10.6582	16.6600	0.0000	45,062.92 44	45,062.92 44	4.3573	0.0000	45,154.42 67
Total	426.1690	1,352.522 3	952.2968	1.3972	141.2248	62.2647	203.4894	61.5995	57.6424	119.2419	0.0000	138,583.3 512	138,583.3 512	32.1142	0.0000	139,257.7 483

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					
2015	15.0325	249.6297	247.4326	0.4490	23.5732	10.2517	33.8249	10.9464	10.0062	20.9527	0.0000	47,025.44 42	47,025.44 42	13.8848	0.0000	47,317.02 52
2016	21.9882	242.9054	245.6514	0.4488	23.5732	9.8992	33.4723	10.9464	9.6819	20.6283	0.0000	46,494.98 25	46,494.98 25	13.8721	0.0000	46,786.29 63
2017	327.0570	178.1016	256.4436	0.4994	22.3648	9.7473	32.1121	6.0018	9.3753	15.3771	0.0000	45,062.92 44	45,062.92 44	4.3573	0.0000	45,154.42 67
Total	364.0776	670.6366	749.5276	1.3972	69.5111	29.8982	99.4093	27.8947	29.0634	56.9581	0.0000	138,583.3 511	138,583.3 511	32.1142	0.0000	139,257.7 482

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	14.57	50.42	21.29	0.00	50.78	51.98	51.15	54.72	49.58	52.23	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	88.2465	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
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	88.2465	3.0600e-003	0.3224	2.0000e-005	0.0000	1.1600e-003	1.1600e-003	0.0000	1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003	0.0000	0.7180

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	79.6787	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
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	79.6787	3.0600e-003	0.3224	2.0000e-005	0.0000	1.1600e-003	1.1600e-003	0.0000	1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003	0.0000	0.7180

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	9.71	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	11/1/2015	1/1/2016	5	45	
2	Building Construction	Building Construction	1/2/2016	10/27/2017	5	475	
3	Architectural Coating	Architectural Coating	1/1/2017	12/29/2017	5	260	
4	Paving	Paving	10/28/2017	12/29/2017	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 450

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,060,290; Non-Residential Outdoor: 1,686,763 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	4	8.00	162	0.38
Grading	Graders	8	8.00	174	0.41
Grading	Off-Highway Tractors	6	8.00	189	0.50
Grading	Rubber Tired Dozers	8	8.00	255	0.40
Grading	Scrapers	16	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	6	8.00	226	0.29
Building Construction	Forklifts	10	8.00	89	0.20
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	10	8.00	97	0.37
Building Construction	Welders	4	8.00	46	0.45
Architectural Coating	Air Compressors	12	8.00	78	0.48
Paving	Pavers	8	8.00	125	0.42
Paving	Paving Equipment	8	8.00	130	0.36
Paving	Rollers	8	8.00	80	0.38

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
Grading	46	58.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	34	1,408.00	553.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	12	282.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	24	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2015

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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	48.8819	588.0878	352.3958	0.4416		26.3011	26.3011		24.1970	24.1970		46,385.41 54	46,385.41 54	13.8480		46,676.22 30
Total	48.8819	588.0878	352.3958	0.4416	58.7817	26.3011	85.0828	27.6269	24.1970	51.8240		46,385.41 54	46,385.41 54	13.8480		46,676.22 30

3.2 Grading - 2015

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	0.2629	0.3621	3.8104	7.4200e-003	0.6483	5.0700e-003	0.6534	0.1719	4.6400e-003	0.1766		640.0289	640.0289	0.0368			640.8022
Total	0.2629	0.3621	3.8104	7.4200e-003	0.6483	5.0700e-003	0.6534	0.1719	4.6400e-003	0.1766		640.0289	640.0289	0.0368			640.8022

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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000				0.0000
Off-Road	14.7696	249.2677	243.6222	0.4416		10.2467	10.2467		10.0016	10.0016	0.0000	46,385.4153	46,385.4153	13.8480			46,676.2230
Total	14.7696	249.2677	243.6222	0.4416	22.9249	10.2467	33.1715	10.7745	10.0016	20.7761	0.0000	46,385.4153	46,385.4153	13.8480			46,676.2230

3.2 Grading - 2015

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	0.2629	0.3621	3.8104	7.4200e-003	0.6483	5.0700e-003	0.6534	0.1719	4.6400e-003	0.1766		640.0289	640.0289	0.0368		640.8022
Total	0.2629	0.3621	3.8104	7.4200e-003	0.6483	5.0700e-003	0.6534	0.1719	4.6400e-003	0.1766		640.0289	640.0289	0.0368		640.8022

3.2 Grading - 2016

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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	46.6771	555.5795	337.7246	0.4413		24.7589	24.7589		22.7782	22.7782		45,878.01 46	45,878.01 46	13.8384		46,168.62 17
Total	46.6771	555.5795	337.7246	0.4413	58.7817	24.7589	83.5406	27.6269	22.7782	50.4051		45,878.01 46	45,878.01 46	13.8384		46,168.62 17

3.2 Grading - 2016

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	0.2344	0.3240	3.4169	7.4200e-003	0.6483	4.8100e-003	0.6531	0.1719	4.4200e-003	0.1764		616.9680	616.9680	0.0337			617.6747
Total	0.2344	0.3240	3.4169	7.4200e-003	0.6483	4.8100e-003	0.6531	0.1719	4.4200e-003	0.1764		616.9680	616.9680	0.0337			617.6747

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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000				0.0000
Off-Road	14.2728	242.5814	242.2345	0.4413		9.8944	9.8944		9.6775	9.6775	0.0000	45,878.0145	45,878.0145	13.8384			46,168.6217
Total	14.2728	242.5814	242.2345	0.4413	22.9249	9.8944	32.8192	10.7745	9.6775	20.4520	0.0000	45,878.0145	45,878.0145	13.8384			46,168.6217

3.2 Grading - 2016

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	0.2344	0.3240	3.4169	7.4200e-003	0.6483	4.8100e-003	0.6531	0.1719	4.4200e-003	0.1764		616.9680	616.9680	0.0337			617.6747
Total	0.2344	0.3240	3.4169	7.4200e-003	0.6483	4.8100e-003	0.6531	0.1719	4.4200e-003	0.1764		616.9680	616.9680	0.0337			617.6747

3.3 Building Construction - 2016

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	14.8008	129.8201	77.7563	0.1167		8.3854	8.3854		7.8684	7.8684		11,663.4499	11,663.4499	2.9456			11,725.3080
Total	14.8008	129.8201	77.7563	0.1167		8.3854	8.3854		7.8684	7.8684		11,663.4499	11,663.4499	2.9456			11,725.3080

3.3 Building Construction - 2016

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	4.9862	49.5997	63.0087	0.1193	3.4743	0.8075	4.2817	0.9919	0.7426	1.7345		11,956.56 62	11,956.56 62	0.0894			11,958.44 33
Worker	5.6891	7.8647	82.9491	0.1801	15.7381	0.1168	15.8549	4.1738	0.1073	4.2811		14,977.42 98	14,977.42 98	0.8169			14,994.58 45
Total	10.6753	57.4644	145.9578	0.2994	19.2124	0.9243	20.1367	5.1658	0.8499	6.0156		26,933.99 60	26,933.99 60	0.9063			26,953.02 79

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	11.3129	94.7214	77.8798	0.1167		6.6730	6.6730		6.3418	6.3418	0.0000	11,663.44 99	11,663.44 99	2.9456			11,725.30 80
Total	11.3129	94.7214	77.8798	0.1167		6.6730	6.6730		6.3418	6.3418	0.0000	11,663.44 99	11,663.44 99	2.9456			11,725.30 80

3.3 Building Construction - 2016

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	4.9862	49.5997	63.0087	0.1193	3.4743	0.8075	4.2817	0.9919	0.7426	1.7345		11,956.56 62	11,956.56 62	0.0894			11,958.44 33
Worker	5.6891	7.8647	82.9491	0.1801	15.7381	0.1168	15.8549	4.1738	0.1073	4.2811		14,977.42 98	14,977.42 98	0.8169			14,994.58 45
Total	10.6753	57.4644	145.9578	0.2994	19.2124	0.9243	20.1367	5.1658	0.8499	6.0156		26,933.99 60	26,933.99 60	0.9063			26,953.02 79

3.3 Building Construction - 2017

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	13.4492	119.6804	75.7123	0.1167		7.5665	7.5665		7.0982	7.0982		11,530.67 43	11,530.67 43	2.8965			11,591.49 98
Total	13.4492	119.6804	75.7123	0.1167		7.5665	7.5665		7.0982	7.0982		11,530.67 43	11,530.67 43	2.8965			11,591.49 98

3.3 Building Construction - 2017

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	4.6022	45.0721	60.1886	0.1192	3.4746	0.7199	4.1945	0.9920	0.6621	1.6542		11,759.56 16	11,759.56 16	0.0865			11,761.37 79
Worker	5.0374	7.0450	74.2817	0.1800	15.7381	0.1125	15.8506	4.1738	0.1037	4.2775		14,387.86 02	14,387.86 02	0.7489			14,403.58 68
Total	9.6396	52.1172	134.4703	0.2991	19.2127	0.8324	20.0451	5.1659	0.7659	5.9317		26,147.42 18	26,147.42 18	0.8354			26,164.96 47

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	10.3935	89.6129	77.2067	0.1167		6.1190	6.1190		5.8153	5.8153	0.0000	11,530.67 43	11,530.67 43	2.8965			11,591.49 98
Total	10.3935	89.6129	77.2067	0.1167		6.1190	6.1190		5.8153	5.8153	0.0000	11,530.67 43	11,530.67 43	2.8965			11,591.49 98

3.3 Building Construction - 2017

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	4.6022	45.0721	60.1886	0.1192	3.4746	0.7199	4.1945	0.9920	0.6621	1.6542		11,759.56 16	11,759.56 16	0.0865			11,761.37 79
Worker	5.0374	7.0450	74.2817	0.1800	15.7381	0.1125	15.8506	4.1738	0.1037	4.2775		14,387.86 02	14,387.86 02	0.7489			14,403.58 68
Total	9.6396	52.1172	134.4703	0.2991	19.2127	0.8324	20.0451	5.1659	0.7659	5.9317		26,147.42 18	26,147.42 18	0.8354			26,164.96 47

3.4 Architectural Coating - 2017

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	300.6980					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	5.3170	34.9604	29.8891	0.0475		2.7734	2.7734		2.7734	2.7734		4,503.168 8	4,503.168 8	0.4754			4,513.152 9
Total	306.0150	34.9604	29.8891	0.0475		2.7734	2.7734		2.7734	2.7734		4,503.168 8	4,503.168 8	0.4754			4,513.152 9

3.4 Architectural Coating - 2017

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	1.0089	1.4110	14.8774	0.0361	3.1521	0.0225	3.1746	0.8360	0.0208	0.8567		2,881.6595	2,881.6595	0.1500			2,884.8093
Total	1.0089	1.4110	14.8774	0.0361	3.1521	0.0225	3.1746	0.8360	0.0208	0.8567		2,881.6595	2,881.6595	0.1500			2,884.8093

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	300.6980					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	5.3170	34.9604	29.8891	0.0475		2.7734	2.7734		2.7734	2.7734	0.0000	4,503.1688	4,503.1688	0.4754			4,513.1529
Total	306.0150	34.9604	29.8891	0.0475		2.7734	2.7734		2.7734	2.7734	0.0000	4,503.1688	4,503.1688	0.4754			4,513.1529

3.4 Architectural Coating - 2017

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	1.0089	1.4110	14.8774	0.0361	3.1521	0.0225	3.1746	0.8360	0.0208	0.8567		2,881.6595	2,881.6595	0.1500			2,884.8093
Total	1.0089	1.4110	14.8774	0.0361	3.1521	0.0225	3.1746	0.8360	0.0208	0.8567		2,881.6595	2,881.6595	0.1500			2,884.8093

3.5 Paving - 2017

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	7.6295	81.1856	58.9081	0.0892		4.5536	4.5536		4.1893	4.1893		9,124.2352	9,124.2352	2.7957			9,182.9438
Paving	0.3750					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	8.0045	81.1856	58.9081	0.0892		4.5536	4.5536		4.1893	4.1893		9,124.2352	9,124.2352	2.7957			9,182.9438

3.5 Paving - 2017

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	0.1073	0.1501	1.5827	3.8300e-003	0.3353	2.4000e-003	0.3377	0.0889	2.2100e-003	0.0911		306.5595	306.5595	0.0160			306.8946
Total	0.1073	0.1501	1.5827	3.8300e-003	0.3353	2.4000e-003	0.3377	0.0889	2.2100e-003	0.0911		306.5595	306.5595	0.0160			306.8946

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	7.6295	81.1856	58.9081	0.0892		4.5536	4.5536		4.1893	4.1893	0.0000	9,124.2352	9,124.2352	2.7957			9,182.9438
Paving	0.3750					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	8.0045	81.1856	58.9081	0.0892		4.5536	4.5536		4.1893	4.1893	0.0000	9,124.2352	9,124.2352	2.7957			9,182.9438

3.5 Paving - 2017

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	0.1073	0.1501	1.5827	3.8300e-003	0.3353	2.4000e-003	0.3377	0.0889	2.2100e-003	0.0911		306.5595	306.5595	0.0160		306.8946
Total	0.1073	0.1501	1.5827	3.8300e-003	0.3353	2.4000e-003	0.3377	0.0889	2.2100e-003	0.0911		306.5595	306.5595	0.0160		306.8946

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	0.00	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	16.30	64.70	19.00	54	35	11
Unrefrigerated Warehouse-No	0.00	0.00	0.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	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
Unrefrigerated Warehouse-No Pail	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
General Light Industry	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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	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
Unrefrigerated Warehouse-No Paint	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
General Light Industry	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

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	79.6787	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
Unmitigated	88.2465	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180

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	21.4196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	66.7958					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0311	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
Total	88.2465	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180

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	12.8517					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	66.7958					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0311	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180
Total	79.6787	3.0600e-003	0.3224	2.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003		0.6783	0.6783	1.8900e-003		0.7180

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 Vegetation

CALEEMOD EMISSIONS MODEL OUTPUTS
CONSTRUCTION (PLANNING AREAS 2-4)

Merideth International Centre (Planning Area 2-4 Construction)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	280.00	1000sqft	6.43	280,000.00	0
Parking Lot	2,800.00	Space	25.20	1,120,000.00	0
Hotel	600.00	Room	20.00	345,000.00	0
Apartments Low Rise	800.00	Dwelling Unit	50.00	800,000.00	2288
Regional Shopping Center	518.00	1000sqft	11.89	518,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - assumed 2 parking spaces per hotel room

Construction Phase - based on a 2020 opening year

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on information provided by the applicant
 Off-road Equipment - based on information provided by the applicant
 Off-road Equipment - based on information provided by the applicant
 Trips and VMT -
 Grading -
 Architectural Coating -
 Vehicle Trips - no operational emissions modeled
 Vehicle Emission Factors - no operational emissions modeled
 Vehicle Emission Factors - no operational emissions modeled
 Vehicle Emission Factors - no operational emissions modeled
 Woodstoves - operational emissions not modeled
 Area Coating -
 Energy Use - no operational emissions modeled
 Water And Wastewater - no operational emissions modeled
 Solid Waste - no operational emissions modeled
 Construction Off-road Equipment Mitigation - tier 3 mitigation to all equipment greater than 150 HP
 Area Mitigation - 150 g/L low VOC paint

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150

tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	150
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	24.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	24.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	348.00
tblConstructionPhase	NumDays	220.00	375.00
tblConstructionPhase	NumDays	220.00	400.00
tblConstructionPhase	NumDays	3,100.00	400.00
tblConstructionPhase	NumDays	3,100.00	400.00
tblConstructionPhase	NumDays	3,100.00	400.00
tblConstructionPhase	NumDays	310.00	45.00
tblConstructionPhase	NumDays	310.00	45.00
tblConstructionPhase	NumDays	310.00	45.00
tblConstructionPhase	NumDays	220.00	270.00
tblConstructionPhase	NumDays	220.00	271.00
tblConstructionPhase	NumDays	220.00	243.00
tblConstructionPhase	PhaseEndDate	3/17/2021	10/1/2019
tblConstructionPhase	PhaseEndDate	6/25/2021	1/7/2020
tblConstructionPhase	PhaseEndDate	7/20/2021	4/10/2020
tblConstructionPhase	PhaseEndDate	11/15/2019	9/13/2019
tblConstructionPhase	PhaseEndDate	1/17/2020	11/15/2019

tblConstructionPhase	PhaseEndDate	4/13/2021	1/17/2020
tblConstructionPhase	PhaseEndDate	11/15/2019	7/6/2018
tblConstructionPhase	PhaseEndDate	4/23/2021	9/11/2020
tblConstructionPhase	PhaseEndDate	9/27/2021	11/13/2020
tblConstructionPhase	PhaseEndDate	10/20/2021	12/4/2020
tblConstructionPhase	PhaseStartDate	11/16/2019	6/1/2018
tblConstructionPhase	PhaseStartDate	1/18/2020	8/1/2018
tblConstructionPhase	PhaseStartDate	1/8/2020	10/1/2018
tblConstructionPhase	PhaseStartDate	5/5/2018	3/3/2018
tblConstructionPhase	PhaseStartDate	7/7/2018	5/5/2018
tblConstructionPhase	PhaseStartDate	10/2/2019	7/7/2018
tblConstructionPhase	PhaseStartDate	9/14/2019	5/5/2018
tblConstructionPhase	PhaseStartDate	4/11/2020	9/1/2019
tblConstructionPhase	PhaseStartDate	9/12/2020	11/1/2019
tblConstructionPhase	PhaseStartDate	11/14/2020	1/1/2020
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	6.13	0.00
tblEnergyUse	LightingElect	4.80	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	7.62	0.00
tblEnergyUse	NT24E	2,630.88	0.00
tblEnergyUse	NT24E	6.23	0.00
tblEnergyUse	NT24E	2.60	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	NT24NG	2,498.00	0.00
tblEnergyUse	NT24NG	4.86	0.00
tblEnergyUse	NT24NG	0.30	0.00
tblEnergyUse	T24E	636.58	0.00

tblEnergyUse	T24E	7.91	0.00
tblEnergyUse	T24E	3.75	0.00
tblEnergyUse	T24E	5.60	0.00
tblEnergyUse	T24NG	11,224.20	0.00
tblEnergyUse	T24NG	58.04	0.00
tblEnergyUse	T24NG	3.07	0.00
tblEnergyUse	T24NG	2.02	0.00
tblFireplaces	NumberGas	680.00	0.00
tblFireplaces	NumberNoFireplace	80.00	0.00
tblFireplaces	NumberWood	40.00	0.00
tblLandUse	LandUseSquareFeet	871,200.00	345,000.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	368.00	0.00
tblSolidWaste	SolidWasteGenerationRate	328.50	0.00
tblSolidWaste	SolidWasteGenerationRate	260.40	0.00
tblSolidWaste	SolidWasteGenerationRate	543.90	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00

tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	42.94	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00

tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	52,123,220.50	0.00
tblWater	IndoorWaterUseRate	15,220,062.00	0.00
tblWater	IndoorWaterUseRate	49,765,449.44	0.00
tblWater	IndoorWaterUseRate	38,369,566.13	0.00
tblWater	OutdoorWaterUseRate	32,860,291.18	0.00
tblWater	OutdoorWaterUseRate	1,691,118.00	0.00
tblWater	OutdoorWaterUseRate	30,501,404.49	0.00
tblWater	OutdoorWaterUseRate	23,516,830.85	0.00

tblWoodstoves	NumberCatalytic	40.00	0.00
tblWoodstoves	NumberNoncatalytic	40.00	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	330.4724	518.4273	618.0653	1.3601	100.8718	23.9003	124.7721	38.9056	22.3262	61.2318	0.0000	116,995.5196	116,995.5196	13.9331	0.0000	117,288.1139
2019	327.6469	388.7262	612.7557	1.4029	67.1414	18.3955	85.5369	17.9803	17.4862	35.4665	0.0000	118,450.3548	118,450.3548	10.1643	0.0000	118,663.8053
2020	201.7534	205.4355	303.8386	0.6618	26.5047	10.2357	36.7404	7.0871	9.6506	16.7378	0.0000	55,825.9287	55,825.9287	7.3507	0.0000	55,980.2925
Total	859.8727	1,112.5890	1,534.6596	3.4249	194.5179	52.5315	247.0493	63.9730	49.4630	113.4360	0.0000	291,271.8030	291,271.8030	31.4480	0.0000	291,932.2117

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	325.4364	349.7934	624.5231	1.3601	66.8070	17.0214	83.8284	22.0532	16.4089	37.3059	0.0000	116,995.5195	116,995.5195	13.9331	0.0000	117,288.1139
2019	323.3940	350.3836	621.8997	1.4029	67.1414	16.6267	83.7681	17.9803	15.9566	33.9369	0.0000	118,450.3547	118,450.3547	10.1643	0.0000	118,663.8053
2020	200.5339	195.0632	307.5820	0.6618	26.5047	9.7728	36.2774	7.0871	9.2572	16.3444	0.0000	55,825.9287	55,825.9287	7.3507	0.0000	55,980.2925
Total	849.3643	895.2402	1,554.0047	3.4249	160.4531	43.4208	203.8739	47.1206	41.6227	87.5872	0.0000	291,271.8029	291,271.8029	31.4480	0.0000	291,932.2116

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.22	19.54	-1.26	0.00	17.51	17.34	17.48	26.34	15.85	22.79	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	71.8894	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459
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	71.8894	0.7699	66.6518	3.5200e-003	0.0000	0.3657	0.3657	0.0000	0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

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	71.3012	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459
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	71.3012	0.7699	66.6518	3.5200e-003	0.0000	0.3657	0.3657	0.0000	0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.82	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 (PA 2)	Grading	1/1/2018	3/2/2018	5	45	
2	Grading (PA 3)	Grading	3/3/2018	5/4/2018	5	45	
3	Building Construction (PA 2)	Building Construction	3/3/2018	9/13/2019	5	400	
4	Grading (PA 4)	Grading	5/5/2018	7/6/2018	5	45	
5	Building Construction (PA 3)	Building Construction	5/5/2018	11/15/2019	5	400	
6	Architectural Coating (PA 2)	Architectural Coating	6/1/2018	10/1/2019	5	348	
7	Building Construction (PA 4)	Building Construction	7/7/2018	1/17/2020	5	400	
8	Architectural Coating (PA 3)	Architectural Coating	8/1/2018	1/7/2020	5	375	
9	Architectural Coating (PA 4)	Architectural Coating	10/1/2018	4/10/2020	5	400	
10	Paving (PA 2)	Paving	9/1/2019	9/11/2020	5	270	
11	Paving (PA 3)	Paving	11/1/2019	11/13/2020	5	271	
12	Paving (PA 4)	Paving	1/1/2020	12/4/2020	5	243	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,620,000; Residential Outdoor: 540,000; Non-Residential Indoor: 1,764,900; Non-Residential Outdoor: 588,300
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading (PA 2)	Excavators	0	8.00	162	0.38
Grading (PA 2)	Graders	4	8.00	174	0.41
Grading (PA 2)	Off-Highway Trucks	4	8.00	189	0.50
Grading (PA 2)	Rubber Tired Dozers	8	8.00	255	0.40
Grading (PA 2)	Scrapers	8	8.00	361	0.48
Grading (PA 2)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading (PA 3)	Excavators	0	8.00	162	0.38
Grading (PA 3)	Graders	4	8.00	174	0.41
Grading (PA 3)	Off-Highway Trucks	4	8.00	189	0.50
Grading (PA 3)	Rubber Tired Dozers	8	8.00	255	0.40
Grading (PA 3)	Scrapers	8	8.00	361	0.48
Grading (PA 3)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction (PA 2)	Cranes	4	8.00	226	0.29
Building Construction (PA 2)	Forklifts	6	8.00	89	0.20
Building Construction (PA 2)	Generator Sets	4	8.00	84	0.74
Building Construction (PA 2)	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction (PA 2)	Welders	4	8.00	46	0.45
Grading (PA 4)	Excavators	0	8.00	162	0.38
Grading (PA 4)	Graders	4	8.00	174	0.41
Grading (PA 4)	Off-Highway Trucks	4	8.00	189	0.50
Grading (PA 4)	Rubber Tired Dozers	8	8.00	255	0.40
Grading (PA 4)	Scrapers	8	8.00	361	0.48
Grading (PA 4)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction (PA 3)	Cranes	4	8.00	226	0.29
Building Construction (PA 3)	Forklifts	6	8.00	89	0.20
Building Construction (PA 3)	Generator Sets	4	8.00	84	0.74
Building Construction (PA 3)	Tractors/Loaders/Backhoes	6	8.00	97	0.37

Building Construction (PA 3)	Welders	4	8.00	46	0.45
Architectural Coating (PA 2)	Air Compressors	6	8.00	78	0.48
Building Construction (PA 4)	Cranes	4	8.00	226	0.29
Building Construction (PA 4)	Forklifts	6	8.00	89	0.20
Building Construction (PA 4)	Generator Sets	4	8.00	84	0.74
Building Construction (PA 4)	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction (PA 4)	Welders	4	8.00	46	0.45
Architectural Coating (PA 3)	Air Compressors	6	8.00	78	0.48
Architectural Coating (PA 4)	Air Compressors	6	8.00	78	0.48
Paving (PA 2)	Pavers	4	8.00	125	0.42
Paving (PA 2)	Paving Equipment	4	8.00	130	0.36
Paving (PA 2)	Rollers	4	8.00	80	0.38
Paving (PA 3)	Pavers	4	8.00	125	0.42
Paving (PA 3)	Paving Equipment	4	8.00	130	0.36
Paving (PA 3)	Rollers	4	8.00	80	0.38
Paving (PA 4)	Pavers	4	8.00	125	0.42
Paving (PA 4)	Paving Equipment	4	8.00	130	0.36
Paving (PA 4)	Rollers	4	8.00	80	0.38

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
Grading (PA 2)	28	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading (PA 3)	28	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (PA 2)	24	1,447.00	456.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading (PA 4)	28	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (PA 2)	24	1,447.00	456.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (PA 2)	6	289.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (PA 4)	24	1,447.00	456.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (PA 2)	6	289.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (PA 4)	6	289.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (PA 2)	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (PA 3)	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (PA 4)	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading (PA 2) - 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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	24.2969	272.0138	179.1507	0.2600		12.2774	12.2774		11.2952	11.2952		26,174.0489	26,174.0489	8.1483		26,345.1640
Total	24.2969	272.0138	179.1507	0.2600	58.7817	12.2774	71.0591	27.6269	11.2952	38.9221		26,174.0489	26,174.0489	8.1483		26,345.1640

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	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344		756.4327
Total	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344		756.4327

3.2 Grading (PA 2) - 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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000			0.0000
Off-Road	8.6006	135.3111	139.2436	0.2600		5.6687	5.6687		5.5337	5.5337	0.0000	26,174.0488	26,174.0488	8.1483		26,345.1639
Total	8.6006	135.3111	139.2436	0.2600	22.9249	5.6687	28.5935	10.7745	5.5337	16.3082	0.0000	26,174.0488	26,174.0488	8.1483		26,345.1639

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	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344		756.4327
Total	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344		756.4327

3.3 Grading (PA 3) - 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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	24.2969	272.0138	179.1507	0.2600		12.2774	12.2774		11.2952	11.2952		26,174.0489	26,174.0489	8.1483		26,345.1640
Total	24.2969	272.0138	179.1507	0.2600	58.7817	12.2774	71.0591	27.6269	11.2952	38.9221		26,174.0489	26,174.0489	8.1483		26,345.1640

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	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344		756.4327
Total	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344		756.4327

3.3 Grading (PA 3) - 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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000				0.0000
Off-Road	8.6006	135.3111	139.2436	0.2600		5.6687	5.6687		5.5337	5.5337	0.0000	26,174.0488	26,174.0488	8.1483			26,345.1639
Total	8.6006	135.3111	139.2436	0.2600	22.9249	5.6687	28.5935	10.7745	5.5337	16.3082	0.0000	26,174.0488	26,174.0488	8.1483			26,345.1639

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	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344			756.4327
Total	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344			756.4327

3.4 Building Construction (PA 2) - 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					
Off-Road	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277
Total	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.3042	33.2028	40.5133	0.0988	2.8646	0.5532	3.4178	0.8178	0.5089	1.3267		9,611.7396	9,611.7396	0.0687		9,613.1823
Worker	4.9404	6.1223	80.9297	0.2033	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		15,621.6192	15,621.6192	0.7107		15,636.5444
Total	8.2446	39.3251	121.4430	0.3021	19.0387	0.6660	19.7047	5.1072	0.6132	5.7205		25,233.3588	25,233.3588	0.7794		25,249.7267

3.4 Building Construction (PA 2) - 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					
Off-Road	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277
Total	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.3042	33.2028	40.5133	0.0988	2.8646	0.5532	3.4178	0.8178	0.5089	1.3267		9,611.7396	9,611.7396	0.0687		9,613.1823
Worker	4.9404	6.1223	80.9297	0.2033	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		15,621.6192	15,621.6192	0.7107		15,636.5444
Total	8.2446	39.3251	121.4430	0.3021	19.0387	0.6660	19.7047	5.1072	0.6132	5.7205		25,233.3588	25,233.3588	0.7794		25,249.7267

3.4 Building Construction (PA 2) - 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	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832
Total	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.1321	30.4924	39.2972	0.0981	2.8643	0.5306	3.3948	0.8177	0.4881	1.3057		9,391.9464	9,391.9464	0.0664		9,393.3406
Worker	4.4957	5.5795	73.4037	0.2022	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		14,964.4848	14,964.4848	0.6553		14,978.2456
Total	7.6279	36.0719	112.7009	0.3003	19.0383	0.6407	19.6790	5.1071	0.5902	5.6972		24,356.4312	24,356.4312	0.7217		24,371.5862

3.4 Building Construction (PA 2) - 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	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832
Total	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.1321	30.4924	39.2972	0.0981	2.8643	0.5306	3.3948	0.8177	0.4881	1.3057		9,391.9464	9,391.9464	0.0664		9,393.3406
Worker	4.4957	5.5795	73.4037	0.2022	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		14,964.4848	14,964.4848	0.6553		14,978.2456
Total	7.6279	36.0719	112.7009	0.3003	19.0383	0.6407	19.6790	5.1071	0.5902	5.6972		24,356.4312	24,356.4312	0.7217		24,371.5862

3.5 Grading (PA 4) - 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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	24.2969	272.0138	179.1507	0.2600		12.2774	12.2774		11.2952	11.2952		26,174.0489	26,174.0489	8.1483		26,345.1640
Total	24.2969	272.0138	179.1507	0.2600	58.7817	12.2774	71.0591	27.6269	11.2952	38.9221		26,174.0489	26,174.0489	8.1483		26,345.1640

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	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344		756.4327
Total	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344		756.4327

3.5 Grading (PA 4) - 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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000				0.0000
Off-Road	8.6006	135.3111	139.2436	0.2600		5.6687	5.6687		5.5337	5.5337	0.0000	26,174.0488	26,174.0488	8.1483			26,345.1639
Total	8.6006	135.3111	139.2436	0.2600	22.9249	5.6687	28.5935	10.7745	5.5337	16.3082	0.0000	26,174.0488	26,174.0488	8.1483			26,345.1639

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	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344			756.4327
Total	0.2390	0.2962	3.9151	9.8300e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		755.7107	755.7107	0.0344			756.4327

3.6 Building Construction (PA 3) - 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					
Off-Road	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277
Total	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.3042	33.2028	40.5133	0.0988	2.8646	0.5532	3.4178	0.8178	0.5089	1.3267		9,611.7396	9,611.7396	0.0687		9,613.1823
Worker	4.9404	6.1223	80.9297	0.2033	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		15,621.6192	15,621.6192	0.7107		15,636.5444
Total	8.2446	39.3251	121.4430	0.3021	19.0387	0.6660	19.7047	5.1072	0.6132	5.7205		25,233.3588	25,233.3588	0.7794		25,249.7267

3.6 Building Construction (PA 3) - 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					
Off-Road	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277
Total	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.3042	33.2028	40.5133	0.0988	2.8646	0.5532	3.4178	0.8178	0.5089	1.3267		9,611.7396	9,611.7396	0.0687		9,613.1823
Worker	4.9404	6.1223	80.9297	0.2033	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		15,621.6192	15,621.6192	0.7107		15,636.5444
Total	8.2446	39.3251	121.4430	0.3021	19.0387	0.6660	19.7047	5.1072	0.6132	5.7205		25,233.3588	25,233.3588	0.7794		25,249.7267

3.6 Building Construction (PA 3) - 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	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832
Total	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.1321	30.4924	39.2972	0.0981	2.8643	0.5306	3.3948	0.8177	0.4881	1.3057		9,391.9464	9,391.9464	0.0664		9,393.3406
Worker	4.4957	5.5795	73.4037	0.2022	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		14,964.4848	14,964.4848	0.6553		14,978.2456
Total	7.6279	36.0719	112.7009	0.3003	19.0383	0.6407	19.6790	5.1071	0.5902	5.6972		24,356.4312	24,356.4312	0.7217		24,371.5862

3.6 Building Construction (PA 3) - 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	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832
Total	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.1321	30.4924	39.2972	0.0981	2.8643	0.5306	3.3948	0.8177	0.4881	1.3057		9,391.9464	9,391.9464	0.0664		9,393.3406
Worker	4.4957	5.5795	73.4037	0.2022	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		14,964.4848	14,964.4848	0.6553		14,978.2456
Total	7.6279	36.0719	112.7009	0.3003	19.0383	0.6407	19.6790	5.1071	0.5902	5.6972		24,356.4312	24,356.4312	0.7217		24,371.5862

3.7 Architectural Coating (PA 2) - 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					
Archit. Coating	96.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812
Total	98.7252	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864
Total	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864

3.7 Architectural Coating (PA 2) - 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					
Archit. Coating	96.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.5884	2,251.5884	0.2140		2,256.0812
Total	98.7252	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864
Total	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864

3.7 Architectural Coating (PA 2) - 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					
Archit. Coating	96.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	98.4676	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6
Total	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6

3.7 Architectural Coating (PA 2) - 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					
Archit. Coating	96.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	98.4676	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6
Total	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6

3.8 Building Construction (PA 4) - 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					
Off-Road	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277
Total	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.3042	33.2028	40.5133	0.0988	2.8646	0.5532	3.4178	0.8178	0.5089	1.3267		9,611.7396	9,611.7396	0.0687		9,613.1823
Worker	4.9404	6.1223	80.9297	0.2033	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		15,621.6192	15,621.6192	0.7107		15,636.5444
Total	8.2446	39.3251	121.4430	0.3021	19.0387	0.6660	19.7047	5.1072	0.6132	5.7205		25,233.3588	25,233.3588	0.7794		25,249.7267

3.8 Building Construction (PA 4) - 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					
Off-Road	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277
Total	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.3042	33.2028	40.5133	0.0988	2.8646	0.5532	3.4178	0.8178	0.5089	1.3267		9,611.7396	9,611.7396	0.0687		9,613.1823
Worker	4.9404	6.1223	80.9297	0.2033	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		15,621.6192	15,621.6192	0.7107		15,636.5444
Total	8.2446	39.3251	121.4430	0.3021	19.0387	0.6660	19.7047	5.1072	0.6132	5.7205		25,233.3588	25,233.3588	0.7794		25,249.7267

3.8 Building Construction (PA 4) - 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	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832
Total	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.1321	30.4924	39.2972	0.0981	2.8643	0.5306	3.3948	0.8177	0.4881	1.3057		9,391.9464	9,391.9464	0.0664		9,393.3406
Worker	4.4957	5.5795	73.4037	0.2022	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		14,964.4848	14,964.4848	0.6553		14,978.2456
Total	7.6279	36.0719	112.7009	0.3003	19.0383	0.6407	19.6790	5.1071	0.5902	5.6972		24,356.4312	24,356.4312	0.7217		24,371.5862

3.8 Building Construction (PA 4) - 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	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832
Total	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.1321	30.4924	39.2972	0.0981	2.8643	0.5306	3.3948	0.8177	0.4881	1.3057		9,391.9464	9,391.9464	0.0664		9,393.3406
Worker	4.4957	5.5795	73.4037	0.2022	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		14,964.4848	14,964.4848	0.6553		14,978.2456
Total	7.6279	36.0719	112.7009	0.3003	19.0383	0.6407	19.6790	5.1071	0.5902	5.6972		24,356.4312	24,356.4312	0.7217		24,371.5862

3.8 Building Construction (PA 4) - 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	6.8600	61.7149	50.9283	0.0869		3.3811	3.3811		3.2012	3.2012		8,201.6237	8,201.6237	1.8412		8,240.2879
Total	6.8600	61.7149	50.9283	0.0869		3.3811	3.3811		3.2012	3.2012		8,201.6237	8,201.6237	1.8412		8,240.2879

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	2.9594	26.5428	37.9036	0.0980	2.8640	0.4850	3.3489	0.8175	0.4461	1.2637		9,176.9501	9,176.9501	0.0649		9,178.3136
Worker	4.1780	5.1513	68.1356	0.2022	16.1741	0.1098	16.2839	4.2894	0.1018	4.3913		14,353.4487	14,353.4487	0.6178		14,366.4215
Total	7.1373	31.6941	106.0392	0.3002	19.0380	0.5948	19.6328	5.1069	0.5480	5.6549		23,530.3989	23,530.3989	0.6827		23,544.7351

3.8 Building Construction (PA 4) - 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	5.6405	51.3426	54.6717	0.0869		2.9181	2.9181		2.8078	2.8078	0.0000	8,201.6237	8,201.6237	1.8412		8,240.2878
Total	5.6405	51.3426	54.6717	0.0869		2.9181	2.9181		2.8078	2.8078	0.0000	8,201.6237	8,201.6237	1.8412		8,240.2878

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	2.9594	26.5428	37.9036	0.0980	2.8640	0.4850	3.3489	0.8175	0.4461	1.2637		9,176.9501	9,176.9501	0.0649		9,178.3136
Worker	4.1780	5.1513	68.1356	0.2022	16.1741	0.1098	16.2839	4.2894	0.1018	4.3913		14,353.4487	14,353.4487	0.6178		14,366.4215
Total	7.1373	31.6941	106.0392	0.3002	19.0380	0.5948	19.6328	5.1069	0.5480	5.6549		23,530.3989	23,530.3989	0.6827		23,544.7351

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812
Total	91.7890	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864
Total	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.5884	2,251.5884	0.2140		2,256.0812
Total	91.7890	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864
Total	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	91.5314	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6
Total	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	91.5314	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6
Total	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.9374	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875		2,251.584 4	2,251.584 4	0.1743		2,255.245 3
Total	91.3373	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875		2,251.584 4	2,251.584 4	0.1743		2,255.245 3

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	0.8344	1.0288	13.6083	0.0404	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,866.722 0	2,866.722 0	0.1234		2,869.312 9
Total	0.8344	1.0288	13.6083	0.0404	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,866.722 0	2,866.722 0	0.1234		2,869.312 9

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.9374	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875	0.0000	2,251.584 4	2,251.584 4	0.1743		2,255.245 3
Total	91.3373	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875	0.0000	2,251.584 4	2,251.584 4	0.1743		2,255.245 3

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	0.8344	1.0288	13.6083	0.0404	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,866.722 0	2,866.722 0	0.1234		2,869.312 9
Total	0.8344	1.0288	13.6083	0.0404	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,866.722 0	2,866.722 0	0.1234		2,869.312 9

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812
Total	86.2015	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864
Total	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.0055	3,120.0055	0.1420		3,122.9864

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.588 4	2,251.588 4	0.2140		2,256.081 2
Total	86.2015	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.588 4	2,251.588 4	0.2140		2,256.081 2

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	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.005 5	3,120.005 5	0.1420		3,122.986 4
Total	0.9867	1.2228	16.1636	0.0406	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		3,120.005 5	3,120.005 5	0.1420		3,122.986 4

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	85.9439	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6
Total	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	85.9439	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6
Total	0.8979	1.1144	14.6605	0.0404	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,988.760 3	2,988.760 3	0.1309		2,991.508 6

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.9374	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875		2,251.584 4	2,251.584 4	0.1743		2,255.245 3
Total	85.7498	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875		2,251.584 4	2,251.584 4	0.1743		2,255.245 3

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	0.8344	1.0288	13.6083	0.0404	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,866.722 0	2,866.722 0	0.1234		2,869.312 9
Total	0.8344	1.0288	13.6083	0.0404	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,866.722 0	2,866.722 0	0.1234		2,869.312 9

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.9374	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875	0.0000	2,251.584 4	2,251.584 4	0.1743		2,255.245 3
Total	85.7498	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875	0.0000	2,251.584 4	2,251.584 4	0.1743		2,255.245 3

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	0.8344	1.0288	13.6083	0.0404	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,866.722 0	2,866.722 0	0.1234		2,869.312 9
Total	0.8344	1.0288	13.6083	0.0404	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,866.722 0	2,866.722 0	0.1234		2,869.312 9

3.11 Paving (PA 2) - 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	2.8517	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893		4,417.9463	4,417.9463	1.3978		4,447.2999
Paving	0.2445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0962	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893		4,417.9463	4,417.9463	1.3978		4,447.2999

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	0.0932	0.1157	1.5219	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		310.2519	310.2519	0.0136		310.5372
Total	0.0932	0.1157	1.5219	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		310.2519	310.2519	0.0136		310.5372

3.11 Paving (PA 2) - 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	2.8517	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893	0.0000	4,417.9463	4,417.9463	1.3978		4,447.2999
Paving	0.2445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0962	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893	0.0000	4,417.9463	4,417.9463	1.3978		4,447.2999

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	0.0932	0.1157	1.5219	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		310.2519	310.2519	0.0136		310.5372
Total	0.0932	0.1157	1.5219	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		310.2519	310.2519	0.0136		310.5372

3.11 Paving (PA 2) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9046	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526
Total	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526

3.11 Paving (PA 2) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9046	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526
Total	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526

3.12 Paving (PA 3) - 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	2.8517	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893		4,417.9463	4,417.9463	1.3978		4,447.2999
Paving	0.2436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0953	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893		4,417.9463	4,417.9463	1.3978		4,447.2999

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	0.0932	0.1157	1.5219	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		310.2519	310.2519	0.0136		310.5372
Total	0.0932	0.1157	1.5219	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		310.2519	310.2519	0.0136		310.5372

3.12 Paving (PA 3) - 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	2.8517	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893	0.0000	4,417.9463	4,417.9463	1.3978		4,447.2999
Paving	0.2436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0953	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893	0.0000	4,417.9463	4,417.9463	1.3978		4,447.2999

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	0.0932	0.1157	1.5219	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		310.2519	310.2519	0.0136		310.5372
Total	0.0932	0.1157	1.5219	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		310.2519	310.2519	0.0136		310.5372

3.12 Paving (PA 3) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9037	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526
Total	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526

3.12 Paving (PA 3) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9037	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526
Total	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526

3.13 Paving (PA 4) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2717					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9318	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526
Total	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526

3.13 Paving (PA 4) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2717					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9318	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526
Total	0.0866	0.1068	1.4126	4.1900e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		297.5836	297.5836	0.0128		297.8526

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	0.00	0.00	0.00	40.20	19.20	40.60	86	11	3
Hotel	0.00	0.00	0.00	19.40	61.60	19.00	58	38	4
Office Park	0.00	0.00	0.00	33.00	48.00	19.00	82	15	3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	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
Apartments Low Rise	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
Hotel	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
Office 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
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

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	71.3012	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459
Unmitigated	71.8894	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

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	9.1849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	60.6474					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	2.0571	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657		119.7606	119.7606	0.1184		122.2459
Total	71.8894	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

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	8.5967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	60.6474					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	2.0571	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657		119.7606	119.7606	0.1184		122.2459
Total	71.3012	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

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 Vegetation

Merideth International Centre (Planning Area 2-4 Construction)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	280.00	1000sqft	6.43	280,000.00	0
Parking Lot	2,800.00	Space	25.20	1,120,000.00	0
Hotel	600.00	Room	20.00	345,000.00	0
Apartments Low Rise	800.00	Dwelling Unit	50.00	800,000.00	2288
Regional Shopping Center	518.00	1000sqft	11.89	518,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - assumed 2 parking spaces per hotel room

Construction Phase - based on a 2020 opening year

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant

Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on consultation with the applicant
 Off-road Equipment - based on information provided by the applicant
 Off-road Equipment - based on information provided by the applicant
 Off-road Equipment - based on information provided by the applicant
 Trips and VMT -
 Grading -
 Architectural Coating -
 Vehicle Trips - no operational emissions modeled
 Vehicle Emission Factors - no operational emissions modeled
 Vehicle Emission Factors - no operational emissions modeled
 Vehicle Emission Factors - no operational emissions modeled
 Woodstoves - operational emissions not modeled
 Area Coating -
 Energy Use - no operational emissions modeled
 Water And Wastewater - no operational emissions modeled
 Solid Waste - no operational emissions modeled
 Construction Off-road Equipment Mitigation - tier 3 mitigation to all equipment greater than 150 HP
 Area Mitigation - 150 g/L low VOC paint

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150

tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	150
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	24.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	24.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	348.00
tblConstructionPhase	NumDays	220.00	375.00
tblConstructionPhase	NumDays	220.00	400.00
tblConstructionPhase	NumDays	3,100.00	400.00
tblConstructionPhase	NumDays	3,100.00	400.00
tblConstructionPhase	NumDays	3,100.00	400.00
tblConstructionPhase	NumDays	310.00	45.00
tblConstructionPhase	NumDays	310.00	45.00
tblConstructionPhase	NumDays	310.00	45.00
tblConstructionPhase	NumDays	220.00	270.00
tblConstructionPhase	NumDays	220.00	271.00
tblConstructionPhase	NumDays	220.00	243.00
tblConstructionPhase	PhaseEndDate	3/17/2021	10/1/2019
tblConstructionPhase	PhaseEndDate	6/25/2021	1/7/2020
tblConstructionPhase	PhaseEndDate	7/20/2021	4/10/2020
tblConstructionPhase	PhaseEndDate	11/15/2019	9/13/2019
tblConstructionPhase	PhaseEndDate	1/17/2020	11/15/2019

tblConstructionPhase	PhaseEndDate	4/13/2021	1/17/2020
tblConstructionPhase	PhaseEndDate	11/15/2019	7/6/2018
tblConstructionPhase	PhaseEndDate	4/23/2021	9/11/2020
tblConstructionPhase	PhaseEndDate	9/27/2021	11/13/2020
tblConstructionPhase	PhaseEndDate	10/20/2021	12/4/2020
tblConstructionPhase	PhaseStartDate	11/16/2019	6/1/2018
tblConstructionPhase	PhaseStartDate	1/18/2020	8/1/2018
tblConstructionPhase	PhaseStartDate	1/8/2020	10/1/2018
tblConstructionPhase	PhaseStartDate	5/5/2018	3/3/2018
tblConstructionPhase	PhaseStartDate	7/7/2018	5/5/2018
tblConstructionPhase	PhaseStartDate	10/2/2019	7/7/2018
tblConstructionPhase	PhaseStartDate	9/14/2019	5/5/2018
tblConstructionPhase	PhaseStartDate	4/11/2020	9/1/2019
tblConstructionPhase	PhaseStartDate	9/12/2020	11/1/2019
tblConstructionPhase	PhaseStartDate	11/14/2020	1/1/2020
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	6.13	0.00
tblEnergyUse	LightingElect	4.80	0.00
tblEnergyUse	LightingElect	0.88	0.00
tblEnergyUse	LightingElect	7.62	0.00
tblEnergyUse	NT24E	2,630.88	0.00
tblEnergyUse	NT24E	6.23	0.00
tblEnergyUse	NT24E	2.60	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	NT24NG	2,498.00	0.00
tblEnergyUse	NT24NG	4.86	0.00
tblEnergyUse	NT24NG	0.30	0.00
tblEnergyUse	T24E	636.58	0.00

tblEnergyUse	T24E	7.91	0.00
tblEnergyUse	T24E	3.75	0.00
tblEnergyUse	T24E	5.60	0.00
tblEnergyUse	T24NG	11,224.20	0.00
tblEnergyUse	T24NG	58.04	0.00
tblEnergyUse	T24NG	3.07	0.00
tblEnergyUse	T24NG	2.02	0.00
tblFireplaces	NumberGas	680.00	0.00
tblFireplaces	NumberNoFireplace	80.00	0.00
tblFireplaces	NumberWood	40.00	0.00
tblLandUse	LandUseSquareFeet	871,200.00	345,000.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	HorsePower	400.00	189.00
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	368.00	0.00
tblSolidWaste	SolidWasteGenerationRate	328.50	0.00
tblSolidWaste	SolidWasteGenerationRate	260.40	0.00
tblSolidWaste	SolidWasteGenerationRate	543.90	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00

tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HW_TL	14.70	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	42.94	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00

tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	52,123,220.50	0.00
tblWater	IndoorWaterUseRate	15,220,062.00	0.00
tblWater	IndoorWaterUseRate	49,765,449.44	0.00
tblWater	IndoorWaterUseRate	38,369,566.13	0.00
tblWater	OutdoorWaterUseRate	32,860,291.18	0.00
tblWater	OutdoorWaterUseRate	1,691,118.00	0.00
tblWater	OutdoorWaterUseRate	30,501,404.49	0.00
tblWater	OutdoorWaterUseRate	23,516,830.85	0.00

tblWoodstoves	NumberCatalytic	40.00	0.00
tblWoodstoves	NumberNoncatalytic	40.00	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	329.8853	521.0489	594.6348	1.2917	100.8718	23.9105	124.7823	38.9056	22.3356	61.2412	0.0000	111,730.0669	111,730.0669	13.9375	0.0000	112,022.7539
2019	327.1191	392.3419	592.5350	1.3345	67.1414	18.4095	85.5509	17.9803	17.4991	35.4794	0.0000	113,371.6773	113,371.6773	10.1711	0.0000	113,585.2695
2020	201.5233	206.5624	295.2637	0.6344	26.5047	10.2396	36.7443	7.0871	9.6542	16.7413	0.0000	53,871.2286	53,871.2286	7.3530	0.0000	54,025.6409
Total	858.5277	1,119.9532	1,482.4334	3.2605	194.5179	52.5597	247.0775	63.9730	49.4889	113.4619	0.0000	278,972.9728	278,972.9728	31.4615	0.0000	279,633.6643

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	324.8493	352.4151	601.0925	1.2917	66.8070	17.0368	83.8438	22.0532	16.4230	37.3154	0.0000	111,730.0669	111,730.0669	13.9375	0.0000	112,022.7539
2019	322.8662	353.9993	601.6790	1.3345	67.1414	16.6407	83.7821	17.9803	15.9695	33.9497	0.0000	113,371.6773	113,371.6773	10.1711	0.0000	113,585.2695
2020	200.3038	196.1901	299.0070	0.6344	26.5047	9.7767	36.2813	7.0871	9.2608	16.3480	0.0000	53,871.2285	53,871.2285	7.3530	0.0000	54,025.6409
Total	848.0193	902.6044	1,501.7786	3.2605	160.4531	43.4541	203.9072	47.1206	41.6533	87.6131	0.0000	278,972.9727	278,972.9727	31.4615	0.0000	279,633.6643

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.22	19.41	-1.30	0.00	17.51	17.32	17.47	26.34	15.83	22.78	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	71.8894	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459
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	71.8894	0.7699	66.6518	3.5200e-003	0.0000	0.3657	0.3657	0.0000	0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

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	71.3012	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459
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	71.3012	0.7699	66.6518	3.5200e-003	0.0000	0.3657	0.3657	0.0000	0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.82	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 (PA 2)	Grading	1/1/2018	3/2/2018	5	45	
2	Grading (PA 3)	Grading	3/3/2018	5/4/2018	5	45	
3	Building Construction (PA 2)	Building Construction	3/3/2018	9/13/2019	5	400	
4	Grading (PA 4)	Grading	5/5/2018	7/6/2018	5	45	
5	Building Construction (PA 3)	Building Construction	5/5/2018	11/15/2019	5	400	
6	Architectural Coating (PA 2)	Architectural Coating	6/1/2018	10/1/2019	5	348	
7	Building Construction (PA 4)	Building Construction	7/7/2018	1/17/2020	5	400	
8	Architectural Coating (PA 3)	Architectural Coating	8/1/2018	1/7/2020	5	375	
9	Architectural Coating (PA 4)	Architectural Coating	10/1/2018	4/10/2020	5	400	
10	Paving (PA 2)	Paving	9/1/2019	9/11/2020	5	270	
11	Paving (PA 3)	Paving	11/1/2019	11/13/2020	5	271	
12	Paving (PA 4)	Paving	1/1/2020	12/4/2020	5	243	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,620,000; Residential Outdoor: 540,000; Non-Residential Indoor: 1,764,900; Non-Residential Outdoor: 588,300
(Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading (PA 2)	Excavators	0	8.00	162	0.38
Grading (PA 2)	Graders	4	8.00	174	0.41
Grading (PA 2)	Off-Highway Trucks	4	8.00	189	0.50
Grading (PA 2)	Rubber Tired Dozers	8	8.00	255	0.40
Grading (PA 2)	Scrapers	8	8.00	361	0.48
Grading (PA 2)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading (PA 3)	Excavators	0	8.00	162	0.38
Grading (PA 3)	Graders	4	8.00	174	0.41
Grading (PA 3)	Off-Highway Trucks	4	8.00	189	0.50
Grading (PA 3)	Rubber Tired Dozers	8	8.00	255	0.40
Grading (PA 3)	Scrapers	8	8.00	361	0.48
Grading (PA 3)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction (PA 2)	Cranes	4	8.00	226	0.29
Building Construction (PA 2)	Forklifts	6	8.00	89	0.20
Building Construction (PA 2)	Generator Sets	4	8.00	84	0.74
Building Construction (PA 2)	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction (PA 2)	Welders	4	8.00	46	0.45
Grading (PA 4)	Excavators	0	8.00	162	0.38
Grading (PA 4)	Graders	4	8.00	174	0.41
Grading (PA 4)	Off-Highway Trucks	4	8.00	189	0.50
Grading (PA 4)	Rubber Tired Dozers	8	8.00	255	0.40
Grading (PA 4)	Scrapers	8	8.00	361	0.48
Grading (PA 4)	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction (PA 3)	Cranes	4	8.00	226	0.29
Building Construction (PA 3)	Forklifts	6	8.00	89	0.20
Building Construction (PA 3)	Generator Sets	4	8.00	84	0.74
Building Construction (PA 3)	Tractors/Loaders/Backhoes	6	8.00	97	0.37

Building Construction (PA 3)	Welders	4	8.00	46	0.45
Architectural Coating (PA 2)	Air Compressors	6	8.00	78	0.48
Building Construction (PA 4)	Cranes	4	8.00	226	0.29
Building Construction (PA 4)	Forklifts	6	8.00	89	0.20
Building Construction (PA 4)	Generator Sets	4	8.00	84	0.74
Building Construction (PA 4)	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction (PA 4)	Welders	4	8.00	46	0.45
Architectural Coating (PA 3)	Air Compressors	6	8.00	78	0.48
Architectural Coating (PA 4)	Air Compressors	6	8.00	78	0.48
Paving (PA 2)	Pavers	4	8.00	125	0.42
Paving (PA 2)	Paving Equipment	4	8.00	130	0.36
Paving (PA 2)	Rollers	4	8.00	80	0.38
Paving (PA 3)	Pavers	4	8.00	125	0.42
Paving (PA 3)	Paving Equipment	4	8.00	130	0.36
Paving (PA 3)	Rollers	4	8.00	80	0.38
Paving (PA 4)	Pavers	4	8.00	125	0.42
Paving (PA 4)	Paving Equipment	4	8.00	130	0.36
Paving (PA 4)	Rollers	4	8.00	80	0.38

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
Grading (PA 2)	28	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading (PA 3)	28	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (PA 2)	24	1,447.00	456.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading (PA 4)	28	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (PA 2)	24	1,447.00	456.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (PA 2)	6	289.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (PA 4)	24	1,447.00	456.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (PA 2)	6	289.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (PA 4)	6	289.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (PA 2)	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (PA 3)	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving (PA 4)	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading (PA 2) - 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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	24.2969	272.0138	179.1507	0.2600		12.2774	12.2774		11.2952	11.2952		26,174.0489	26,174.0489	8.1483		26,345.1640
Total	24.2969	272.0138	179.1507	0.2600	58.7817	12.2774	71.0591	27.6269	11.2952	38.9221		26,174.0489	26,174.0489	8.1483		26,345.1640

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	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275
Total	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275

3.2 Grading (PA 2) - 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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000			0.0000
Off-Road	8.6006	135.3111	139.2436	0.2600		5.6687	5.6687		5.5337	5.5337	0.0000	26,174.0488	26,174.0488	8.1483		26,345.1639
Total	8.6006	135.3111	139.2436	0.2600	22.9249	5.6687	28.5935	10.7745	5.5337	16.3082	0.0000	26,174.0488	26,174.0488	8.1483		26,345.1639

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	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275
Total	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275

3.3 Grading (PA 3) - 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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	24.2969	272.0138	179.1507	0.2600		12.2774	12.2774		11.2952	11.2952		26,174.0489	26,174.0489	8.1483		26,345.1640
Total	24.2969	272.0138	179.1507	0.2600	58.7817	12.2774	71.0591	27.6269	11.2952	38.9221		26,174.0489	26,174.0489	8.1483		26,345.1640

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	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275
Total	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275

3.3 Grading (PA 3) - 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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000			0.0000
Off-Road	8.6006	135.3111	139.2436	0.2600		5.6687	5.6687		5.5337	5.5337	0.0000	26,174.0488	26,174.0488	8.1483		26,345.1639
Total	8.6006	135.3111	139.2436	0.2600	22.9249	5.6687	28.5935	10.7745	5.5337	16.3082	0.0000	26,174.0488	26,174.0488	8.1483		26,345.1639

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	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275
Total	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275

3.4 Building Construction (PA 2) - 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					
Off-Road	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277
Total	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.5074	34.0558	47.2715	0.0981	2.8646	0.5583	3.4230	0.8178	0.5136	1.3314		9,530.7171	9,530.7171	0.0709		9,532.2061
Worker	4.6079	6.5296	68.7866	0.1849	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		14,226.1907	14,226.1907	0.7107		14,241.1159
Total	8.1153	40.5854	116.0580	0.2830	19.0387	0.6711	19.7098	5.1072	0.6180	5.7252		23,756.9078	23,756.9078	0.7816		23,773.3221

3.4 Building Construction (PA 2) - 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					
Off-Road	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277
Total	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.5074	34.0558	47.2715	0.0981	2.8646	0.5583	3.4230	0.8178	0.5136	1.3314		9,530.7171	9,530.7171	0.0709		9,532.2061
Worker	4.6079	6.5296	68.7866	0.1849	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		14,226.1907	14,226.1907	0.7107		14,241.1159
Total	8.1153	40.5854	116.0580	0.2830	19.0387	0.6711	19.7098	5.1072	0.6180	5.7252		23,756.9078	23,756.9078	0.7816		23,773.3221

3.4 Building Construction (PA 2) - 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	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832
Total	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.3257	31.2541	45.9728	0.0974	2.8643	0.5352	3.3995	0.8177	0.4924	1.3100		9,312.1365	9,312.1365	0.0686		9,313.5779
Worker	4.1895	5.9471	62.2853	0.1839	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		13,627.6404	13,627.6404	0.6553		13,641.4012
Total	7.5152	37.2012	108.2581	0.2813	19.0383	0.6454	19.6837	5.1071	0.5945	5.7015		22,939.7768	22,939.7768	0.7239		22,954.9790

3.4 Building Construction (PA 2) - 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	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832
Total	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.3257	31.2541	45.9728	0.0974	2.8643	0.5352	3.3995	0.8177	0.4924	1.3100		9,312.1365	9,312.1365	0.0686		9,313.5779
Worker	4.1895	5.9471	62.2853	0.1839	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		13,627.6404	13,627.6404	0.6553		13,641.4012
Total	7.5152	37.2012	108.2581	0.2813	19.0383	0.6454	19.6837	5.1071	0.5945	5.7015		22,939.7768	22,939.7768	0.7239		22,954.9790

3.5 Grading (PA 4) - 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					58.7817	0.0000	58.7817	27.6269	0.0000	27.6269			0.0000			0.0000
Off-Road	24.2969	272.0138	179.1507	0.2600		12.2774	12.2774		11.2952	11.2952		26,174.0489	26,174.0489	8.1483		26,345.1640
Total	24.2969	272.0138	179.1507	0.2600	58.7817	12.2774	71.0591	27.6269	11.2952	38.9221		26,174.0489	26,174.0489	8.1483		26,345.1640

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	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275
Total	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275

3.5 Grading (PA 4) - 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					22.9249	0.0000	22.9249	10.7745	0.0000	10.7745			0.0000			0.0000
Off-Road	8.6006	135.3111	139.2436	0.2600		5.6687	5.6687		5.5337	5.5337	0.0000	26,174.0488	26,174.0488	8.1483		26,345.1639
Total	8.6006	135.3111	139.2436	0.2600	22.9249	5.6687	28.5935	10.7745	5.5337	16.3082	0.0000	26,174.0488	26,174.0488	8.1483		26,345.1639

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	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275
Total	0.2229	0.3159	3.3276	8.9400e-003	0.7824	5.4600e-003	0.7879	0.2075	5.0500e-003	0.2126		688.2055	688.2055	0.0344		688.9275

3.6 Building Construction (PA 3) - 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					
Off-Road	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277
Total	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.5074	34.0558	47.2715	0.0981	2.8646	0.5583	3.4230	0.8178	0.5136	1.3314		9,530.7171	9,530.7171	0.0709		9,532.2061
Worker	4.6079	6.5296	68.7866	0.1849	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		14,226.1907	14,226.1907	0.7107		14,241.1159
Total	8.1153	40.5854	116.0580	0.2830	19.0387	0.6711	19.7098	5.1072	0.6180	5.7252		23,756.9078	23,756.9078	0.7816		23,773.3221

3.6 Building Construction (PA 3) - 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					
Off-Road	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277
Total	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.5074	34.0558	47.2715	0.0981	2.8646	0.5583	3.4230	0.8178	0.5136	1.3314		9,530.7171	9,530.7171	0.0709		9,532.2061
Worker	4.6079	6.5296	68.7866	0.1849	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		14,226.1907	14,226.1907	0.7107		14,241.1159
Total	8.1153	40.5854	116.0580	0.2830	19.0387	0.6711	19.7098	5.1072	0.6180	5.7252		23,756.9078	23,756.9078	0.7816		23,773.3221

3.6 Building Construction (PA 3) - 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	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832
Total	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.3257	31.2541	45.9728	0.0974	2.8643	0.5352	3.3995	0.8177	0.4924	1.3100		9,312.1365	9,312.1365	0.0686		9,313.5779
Worker	4.1895	5.9471	62.2853	0.1839	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		13,627.6404	13,627.6404	0.6553		13,641.4012
Total	7.5152	37.2012	108.2581	0.2813	19.0383	0.6454	19.6837	5.1071	0.5945	5.7015		22,939.7768	22,939.7768	0.7239		22,954.9790

3.6 Building Construction (PA 3) - 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	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832
Total	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.3257	31.2541	45.9728	0.0974	2.8643	0.5352	3.3995	0.8177	0.4924	1.3100		9,312.1365	9,312.1365	0.0686		9,313.5779
Worker	4.1895	5.9471	62.2853	0.1839	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		13,627.6404	13,627.6404	0.6553		13,641.4012
Total	7.5152	37.2012	108.2581	0.2813	19.0383	0.6454	19.6837	5.1071	0.5945	5.7015		22,939.7768	22,939.7768	0.7239		22,954.9790

3.7 Architectural Coating (PA 2) - 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					
Archit. Coating	96.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812
Total	98.7252	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.3055	2,841.3055	0.1420		2,844.2865
Total	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.3055	2,841.3055	0.1420		2,844.2865

3.7 Architectural Coating (PA 2) - 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					
Archit. Coating	96.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.588 4	2,251.588 4	0.2140		2,256.081 2
Total	98.7252	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.588 4	2,251.588 4	0.2140		2,256.081 2

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	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.305 5	2,841.305 5	0.1420		2,844.286 5
Total	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.305 5	2,841.305 5	0.1420		2,844.286 5

3.7 Architectural Coating (PA 2) - 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					
Archit. Coating	96.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	98.4676	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3
Total	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3

3.7 Architectural Coating (PA 2) - 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					
Archit. Coating	96.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	98.4676	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3
Total	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3

3.8 Building Construction (PA 4) - 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					
Off-Road	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277
Total	8.6876	75.0992	53.5816	0.0869		4.5293	4.5293		4.2871	4.2871		8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.5074	34.0558	47.2715	0.0981	2.8646	0.5583	3.4230	0.8178	0.5136	1.3314		9,530.7171	9,530.7171	0.0709		9,532.2061
Worker	4.6079	6.5296	68.7866	0.1849	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		14,226.1907	14,226.1907	0.7107		14,241.1159
Total	8.1153	40.5854	116.0580	0.2830	19.0387	0.6711	19.7098	5.1072	0.6180	5.7252		23,756.9078	23,756.9078	0.7816		23,773.3221

3.8 Building Construction (PA 4) - 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					
Off-Road	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277
Total	7.0089	59.1336	55.7342	0.0869		3.7808	3.7808		3.6311	3.6311	0.0000	8,393.5539	8,393.5539	1.9178		8,433.8277

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	3.5074	34.0558	47.2715	0.0981	2.8646	0.5583	3.4230	0.8178	0.5136	1.3314		9,530.7171	9,530.7171	0.0709		9,532.2061
Worker	4.6079	6.5296	68.7866	0.1849	16.1741	0.1128	16.2868	4.2894	0.1044	4.3938		14,226.1907	14,226.1907	0.7107		14,241.1159
Total	8.1153	40.5854	116.0580	0.2830	19.0387	0.6711	19.7098	5.1072	0.6180	5.7252		23,756.9078	23,756.9078	0.7816		23,773.3221

3.8 Building Construction (PA 4) - 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	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832
Total	7.6457	67.7106	52.0759	0.0869		3.8987	3.8987		3.6909	3.6909		8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.3257	31.2541	45.9728	0.0974	2.8643	0.5352	3.3995	0.8177	0.4924	1.3100		9,312.1365	9,312.1365	0.0686		9,313.5779
Worker	4.1895	5.9471	62.2853	0.1839	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		13,627.6404	13,627.6404	0.6553		13,641.4012
Total	7.5152	37.2012	108.2581	0.2813	19.0383	0.6454	19.6837	5.1071	0.5945	5.7015		22,939.7768	22,939.7768	0.7239		22,954.9790

3.8 Building Construction (PA 4) - 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	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832
Total	6.2281	54.9297	55.1239	0.0869		3.3091	3.3091		3.1811	3.1811	0.0000	8,310.6096	8,310.6096	1.8749		8,349.9832

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	3.3257	31.2541	45.9728	0.0974	2.8643	0.5352	3.3995	0.8177	0.4924	1.3100		9,312.1365	9,312.1365	0.0686		9,313.5779
Worker	4.1895	5.9471	62.2853	0.1839	16.1741	0.1101	16.2842	4.2894	0.1021	4.3915		13,627.6404	13,627.6404	0.6553		13,641.4012
Total	7.5152	37.2012	108.2581	0.2813	19.0383	0.6454	19.6837	5.1071	0.5945	5.7015		22,939.7768	22,939.7768	0.7239		22,954.9790

3.8 Building Construction (PA 4) - 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	6.8600	61.7149	50.9283	0.0869		3.3811	3.3811		3.2012	3.2012		8,201.6237	8,201.6237	1.8412		8,240.2879
Total	6.8600	61.7149	50.9283	0.0869		3.3811	3.3811		3.2012	3.2012		8,201.6237	8,201.6237	1.8412		8,240.2879

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	3.1422	27.1802	44.5852	0.0972	2.8640	0.4889	3.3528	0.8175	0.4497	1.2673		9,098.7196	9,098.7196	0.0672		9,100.1316
Worker	3.8955	5.4863	57.6977	0.1839	16.1741	0.1098	16.2839	4.2894	0.1018	4.3913		13,069.6419	13,069.6419	0.6178		13,082.6146
Total	7.0377	32.6664	102.2828	0.2811	19.0380	0.5987	19.6367	5.1069	0.5516	5.6585		22,168.3615	22,168.3615	0.6850		22,182.7462

3.8 Building Construction (PA 4) - 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	5.6405	51.3426	54.6717	0.0869		2.9181	2.9181		2.8078	2.8078	0.0000	8,201.6237	8,201.6237	1.8412		8,240.2878
Total	5.6405	51.3426	54.6717	0.0869		2.9181	2.9181		2.8078	2.8078	0.0000	8,201.6237	8,201.6237	1.8412		8,240.2878

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	3.1422	27.1802	44.5852	0.0972	2.8640	0.4889	3.3528	0.8175	0.4497	1.2673		9,098.7196	9,098.7196	0.0672		9,100.1316
Worker	3.8955	5.4863	57.6977	0.1839	16.1741	0.1098	16.2839	4.2894	0.1018	4.3913		13,069.6419	13,069.6419	0.6178		13,082.6146
Total	7.0377	32.6664	102.2828	0.2811	19.0380	0.5987	19.6367	5.1069	0.5516	5.6585		22,168.3615	22,168.3615	0.6850		22,182.7462

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812
Total	91.7890	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.3055	2,841.3055	0.1420		2,844.2865
Total	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.3055	2,841.3055	0.1420		2,844.2865

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.588 4	2,251.588 4	0.2140		2,256.081 2
Total	91.7890	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.588 4	2,251.588 4	0.2140		2,256.081 2

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	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.305 5	2,841.305 5	0.1420		2,844.286 5
Total	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.305 5	2,841.305 5	0.1420		2,844.286 5

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	91.5314	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3
Total	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	91.5314	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3
Total	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.9374	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875		2,251.584 4	2,251.584 4	0.1743		2,255.245 3
Total	91.3373	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875		2,251.584 4	2,251.584 4	0.1743		2,255.245 3

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	0.7780	1.0957	11.5236	0.0367	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,610.315 5	2,610.315 5	0.1234		2,612.906 5
Total	0.7780	1.0957	11.5236	0.0367	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,610.315 5	2,610.315 5	0.1234		2,612.906 5

3.9 Architectural Coating (PA 3) - 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					
Archit. Coating	89.3999					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.9374	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875	0.0000	2,251.584 4	2,251.584 4	0.1743		2,255.245 3
Total	91.3373	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875	0.0000	2,251.584 4	2,251.584 4	0.1743		2,255.245 3

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	0.7780	1.0957	11.5236	0.0367	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,610.315 5	2,610.315 5	0.1234		2,612.906 5
Total	0.7780	1.0957	11.5236	0.0367	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,610.315 5	2,610.315 5	0.1234		2,612.906 5

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812
Total	86.2015	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044		2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.3055	2,841.3055	0.1420		2,844.2865
Total	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.3055	2,841.3055	0.1420		2,844.2865

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.3891	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.5884	2,251.5884	0.2140		2,256.0812
Total	86.2015	16.0460	14.8336	0.0238		1.2044	1.2044		1.2044	1.2044	0.0000	2,251.5884	2,251.5884	0.2140		2,256.0812

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	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.3055	2,841.3055	0.1420		2,844.2865
Total	0.9203	1.3041	13.7383	0.0369	3.2303	0.0225	3.2529	0.8567	0.0209	0.8776		2,841.3055	2,841.3055	0.1420		2,844.2865

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1
Total	85.9439	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301		2,251.584 4	2,251.584 4	0.1902		2,255.578 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3
Total	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.760 9	2,721.760 9	0.1309		2,724.509 3

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	2.1315	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.5844	2,251.5844	0.1902		2,255.5781
Total	85.9439	14.6831	14.7306	0.0238		1.0301	1.0301		1.0301	1.0301	0.0000	2,251.5844	2,251.5844	0.1902		2,255.5781

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	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.7609	2,721.7609	0.1309		2,724.5093
Total	0.8368	1.1878	12.4398	0.0367	3.2303	0.0220	3.2523	0.8567	0.0204	0.8771		2,721.7609	2,721.7609	0.1309		2,724.5093

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.9374	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875		2,251.584 4	2,251.584 4	0.1743		2,255.245 3
Total	85.7498	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875		2,251.584 4	2,251.584 4	0.1743		2,255.245 3

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	0.7780	1.0957	11.5236	0.0367	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,610.315 5	2,610.315 5	0.1234		2,612.906 5
Total	0.7780	1.0957	11.5236	0.0367	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,610.315 5	2,610.315 5	0.1234		2,612.906 5

3.10 Architectural Coating (PA 4) - 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					
Archit. Coating	83.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.9374	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875	0.0000	2,251.584 4	2,251.584 4	0.1743		2,255.245 3
Total	85.7498	13.4707	14.6514	0.0238		0.8875	0.8875		0.8875	0.8875	0.0000	2,251.584 4	2,251.584 4	0.1743		2,255.245 3

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	0.7780	1.0957	11.5236	0.0367	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,610.315 5	2,610.315 5	0.1234		2,612.906 5
Total	0.7780	1.0957	11.5236	0.0367	3.2303	0.0219	3.2523	0.8567	0.0203	0.8770		2,610.315 5	2,610.315 5	0.1234		2,612.906 5

3.11 Paving (PA 2) - 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	2.8517	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893		4,417.9463	4,417.9463	1.3978		4,447.2999
Paving	0.2445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0962	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893		4,417.9463	4,417.9463	1.3978		4,447.2999

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	0.0869	0.1233	1.2913	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		282.5357	282.5357	0.0136		282.8210
Total	0.0869	0.1233	1.2913	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		282.5357	282.5357	0.0136		282.8210

3.11 Paving (PA 2) - 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	2.8517	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893	0.0000	4,417.9463	4,417.9463	1.3978		4,447.2999
Paving	0.2445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0962	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893	0.0000	4,417.9463	4,417.9463	1.3978		4,447.2999

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	0.0869	0.1233	1.2913	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		282.5357	282.5357	0.0136		282.8210
Total	0.0869	0.1233	1.2913	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		282.5357	282.5357	0.0136		282.8210

3.11 Paving (PA 2) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9046	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360
Total	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360

3.11 Paving (PA 2) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9046	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360
Total	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360

3.12 Paving (PA 3) - 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	2.8517	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893		4,417.9463	4,417.9463	1.3978		4,447.2999
Paving	0.2436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0953	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893		4,417.9463	4,417.9463	1.3978		4,447.2999

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	0.0869	0.1233	1.2913	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		282.5357	282.5357	0.0136		282.8210
Total	0.0869	0.1233	1.2913	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		282.5357	282.5357	0.0136		282.8210

3.12 Paving (PA 3) - 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	2.8517	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893	0.0000	4,417.9463	4,417.9463	1.3978		4,447.2999
Paving	0.2436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0953	29.8706	28.7303	0.0446		1.6188	1.6188		1.4893	1.4893	0.0000	4,417.9463	4,417.9463	1.3978		4,447.2999

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	0.0869	0.1233	1.2913	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		282.5357	282.5357	0.0136		282.8210
Total	0.0869	0.1233	1.2913	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1200e-003	0.0911		282.5357	282.5357	0.0136		282.8210

3.12 Paving (PA 3) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9037	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360
Total	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360

3.12 Paving (PA 3) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2436					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9037	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360
Total	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360

3.13 Paving (PA 4) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2717					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9318	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598		4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360
Total	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360

3.13 Paving (PA 4) - 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	2.6601	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2
Paving	0.2717					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.9318	27.5690	28.7047	0.0446		1.4781	1.4781		1.3598	1.3598	0.0000	4,321.514 2	4,321.514 2	1.3977		4,350.865 2

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	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360
Total	0.0808	0.1137	1.1962	3.8100e-003	0.3353	2.2800e-003	0.3376	0.0889	2.1100e-003	0.0910		270.9670	270.9670	0.0128		271.2360

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	0.00	0.00	0.00	40.20	19.20	40.60	86	11	3
Hotel	0.00	0.00	0.00	19.40	61.60	19.00	58	38	4
Office Park	0.00	0.00	0.00	33.00	48.00	19.00	82	15	3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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						
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	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

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	71.3012	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459
Unmitigated	71.8894	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

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	9.1849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	60.6474					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	2.0571	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657		119.7606	119.7606	0.1184		122.2459
Total	71.8894	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

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	8.5967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	60.6474					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	2.0571	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657		119.7606	119.7606	0.1184		122.2459
Total	71.3012	0.7699	66.6518	3.5200e-003		0.3657	0.3657		0.3657	0.3657	0.0000	119.7606	119.7606	0.1184	0.0000	122.2459

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 Vegetation

CALEEMOD EMISSIONS MODEL OUTPUTS

OPERATIONS PLANNING AREA 1B OPERATING YEAR 2017 (LIGHT INDUSTRIAL)

Planning Area 1B Light Industrial Operations (Cars Only)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.47	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	2.69	2.10
tblEnergyUse	T24NG	16.16	13.45
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00

tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	ST_TR	1.32	5.48
tblVehicleTrips	SU_TR	0.68	5.48
tblVehicleTrips	WD_TR	6.97	5.48
tblWater	IndoorWaterUseRate	143,381,937.50	10,390,791.00

2.0 Emissions Summary

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	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004			0.1436
Energy	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120		6,148.5304
Mobile	7.6887	8.3742	122.7576	0.3489	31.4034	0.1767	31.5801	8.3247	0.1627	8.4874		27,220.2439	27,220.2439	1.1071			27,243.4925
Offroad	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141			1,031.8496
Total	25.0695	21.8055	129.7902	0.3895	31.4034	0.8360	32.2394	8.3247	0.8003	9.1249		34,356.9702	34,356.9702	1.5387	0.1120		34,424.0161

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Energy	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Mobile	7.6887	8.3742	122.7576	0.3489	31.4034	0.1767	31.5801	8.3247	0.1627	8.4874		27,220.2439	27,220.2439	1.1071		27,243.4925
Offroad	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496
Total	25.0572	21.6935	129.6962	0.3888	31.4034	0.8275	32.2309	8.3247	0.7918	9.1164		34,222.5727	34,222.5727	1.5362	0.1096	34,288.8007

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.45	38.75	2.15	2.75	0.00	33.56	0.87	0.00	32.34	2.84	0.00	3.38	3.38	20.58	2.20	3.39

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	7.6887	8.3742	122.7576	0.3489	31.4034	0.1767	31.5801	8.3247	0.1627	8.4874		27,220.24 39	27,220.24 39	1.1071		27,243.49 25
Mitigated	7.6887	8.3742	122.7576	0.3489	31.4034	0.1767	31.5801	8.3247	0.1627	8.4874		27,220.24 39	27,220.24 39	1.1071		27,243.49 25

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	3,397.76	3,397.76	3,397.76	15,046,244	15,046,244
Total	3,397.76	3,397.76	3,397.76	15,046,244	15,046,244

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
NaturalGas Mitigated	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
General Light Industry	51946.4	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Total		0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	50.804	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Total		0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
Unmitigated	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Mitigated	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2200e-003	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Total	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2200e-003	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Total	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	3	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496
Total	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496

10.0 Vegetation

Planning Area 1B Light Industrial Operations (Trucks Only)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.4741196	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	2.69	2.10
tblEnergyUse	T24NG	16.16	13.45
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00

tblProjectCharacteristics	CO2IntensityFactor	630.89	515.4741196
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	CC_TL	8.40	44.00
tblVehicleTrips	CNW_TL	6.90	44.00
tblVehicleTrips	CW_TL	16.60	44.00
tblVehicleTrips	ST_TR	1.32	1.49
tblVehicleTrips	SU_TR	0.68	1.49
tblVehicleTrips	WD_TR	6.97	1.49
tblWater	IndoorWaterUseRate	143,381,937.50	10,390,791.00

2.0 Emissions Summary

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	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004			0.1436
Energy	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120		6,148.5304
Mobile	17.4252	287.9441	169.7041	0.9323	32.3378	4.6945	37.0323	8.9589	4.3187	13.2777		91,994.7634	91,994.7634	0.8980			92,013.6212
Offroad	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141			1,031.8496
Total	34.8060	301.3754	176.7368	0.9728	32.3378	5.3538	37.6916	8.9589	4.9563	13.9152		99,131.4896	99,131.4896	1.3296	0.1120		99,194.1449

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004			0.1436
Energy	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096		6,013.3150
Mobile	17.4252	287.9441	169.7041	0.9323	32.3378	4.6945	37.0323	8.9589	4.3187	13.2777		91,994.7634	91,994.7634	0.8980			92,013.6212
Offroad	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141			1,031.8496
Total	34.7936	301.2634	176.6427	0.9722	32.3378	5.3453	37.6831	8.9589	4.9478	13.9067		98,997.0921	98,997.0921	1.3271	0.1096		99,058.9295

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.76	2.80	1.58	1.10	0.00	5.24	0.74	0.00	5.22	1.86	0.00	1.17	1.17	23.82	2.20	1.18

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	17.4252	287.9441	169.7041	0.9323	32.3378	4.6945	37.0323	8.9589	4.3187	13.2777		91,994.76 34	91,994.76 34	0.8980		92,013.62 12
Mitigated	17.4252	287.9441	169.7041	0.9323	32.3378	4.6945	37.0323	8.9589	4.3187	13.2777		91,994.76 34	91,994.76 34	0.8980		92,013.62 12

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	923.84	923.84	923.84	13,798,556	13,798,556
Total	923.84	923.84	923.84	13,798,556	13,798,556

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	44.00	44.00	44.00	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.380000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
NaturalGas Mitigated	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
General Light Industry	51946.4	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Total		0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	50.804	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Total		0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
Unmitigated	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Mitigated	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2200e-003	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Total	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2200e-003	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Total	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	3	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496
Total	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496

10.0 Vegetation

Planning Area 1B Light Industrial Operations (Cars Only)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.47	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	2.69	2.10
tblEnergyUse	T24NG	16.16	13.45
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00

tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	ST_TR	1.32	5.48
tblVehicleTrips	SU_TR	0.68	5.48
tblVehicleTrips	WD_TR	6.97	5.48
tblWater	IndoorWaterUseRate	143,381,937.50	10,390,791.00

2.0 Emissions Summary

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	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004			0.1436
Energy	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120		6,148.5304
Mobile	7.1062	8.8910	104.1574	0.3168	31.4034	0.1767	31.5801	8.3247	0.1627	8.4874		24,741.0004	24,741.0004	1.1071			24,764.2490
Offroad	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141			1,031.8496
Total	24.4869	22.3224	111.1901	0.3574	31.4034	0.8360	32.2394	8.3247	0.8003	9.1249		31,877.7266	31,877.7266	1.5387	0.1120		31,944.7726

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004			0.1436
Energy	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096		6,013.3150
Mobile	7.1062	8.8910	104.1574	0.3168	31.4034	0.1767	31.5801	8.3247	0.1627	8.4874		24,741.0004	24,741.0004	1.1071			24,764.2490
Offroad	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141			1,031.8496
Total	24.4746	22.2104	111.0960	0.3567	31.4034	0.8275	32.2309	8.3247	0.7918	9.1164		31,743.3292	31,743.3292	1.5362	0.1096		31,809.5572

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.50	37.85	2.50	3.00	0.00	33.56	0.87	0.00	32.34	2.84	0.00	3.64	3.64	20.58	2.20	3.65

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	7.1062	8.8910	104.1574	0.3168	31.4034	0.1767	31.5801	8.3247	0.1627	8.4874		24,741.0004	24,741.0004	1.1071		24,764.2490
Mitigated	7.1062	8.8910	104.1574	0.3168	31.4034	0.1767	31.5801	8.3247	0.1627	8.4874		24,741.0004	24,741.0004	1.1071		24,764.2490

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	3,397.76	3,397.76	3,397.76	15,046,244	15,046,244
Total	3,397.76	3,397.76	3,397.76	15,046,244	15,046,244

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
NaturalGas Mitigated	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
General Light Industry	51946.4	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Total		0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	50.804	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Total		0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
Unmitigated	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Mitigated	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2200e-003	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Total	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2200e-003	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Total	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	3	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496
Total	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496

10.0 Vegetation

Planning Area 1B Light Industrial Operations (Trucks Only)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.4741196	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	2.69	2.10
tblEnergyUse	T24NG	16.16	13.45
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00

tblProjectCharacteristics	CO2IntensityFactor	630.89	515.4741196
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	CC_TL	8.40	44.00
tblVehicleTrips	CNW_TL	6.90	44.00
tblVehicleTrips	CW_TL	16.60	44.00
tblVehicleTrips	ST_TR	1.32	1.49
tblVehicleTrips	SU_TR	0.68	1.49
tblVehicleTrips	WD_TR	6.97	1.49
tblWater	IndoorWaterUseRate	143,381,937.50	10,390,791.00

2.0 Emissions Summary

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	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004			0.1436
Energy	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120		6,148.5304
Mobile	17.7186	300.4737	178.9309	0.9314	32.3378	4.7006	37.0385	8.9589	4.3244	13.2834		91,893.0066	91,893.0066	0.9013			91,911.9338
Offroad	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141			1,031.8496
Total	35.0993	313.9051	185.9635	0.9720	32.3378	5.3600	37.6978	8.9589	4.9620	13.9209		99,029.7329	99,029.7329	1.3329	0.1120		99,092.4574

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Energy	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Mobile	17.7186	300.4737	178.9309	0.9314	32.3378	4.7006	37.0385	8.9589	4.3244	13.2834		91,893.0066	91,893.0066	0.9013		91,911.9338
Offroad	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496
Total	35.0870	313.7931	185.8694	0.9713	32.3378	5.3515	37.6893	8.9589	4.9535	13.9124		98,895.3354	98,895.3354	1.3304	0.1096	98,957.2420

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.75	2.69	1.50	1.10	0.00	5.23	0.74	0.00	5.22	1.86	0.00	1.17	1.17	23.76	2.20	1.18

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	17.7186	300.4737	178.9309	0.9314	32.3378	4.7006	37.0385	8.9589	4.3244	13.2834		91,893.00 66	91,893.00 66	0.9013		91,911.93 38
Mitigated	17.7186	300.4737	178.9309	0.9314	32.3378	4.7006	37.0385	8.9589	4.3244	13.2834		91,893.00 66	91,893.00 66	0.9013		91,911.93 38

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	923.84	923.84	923.84	13,798,556	13,798,556
Total	923.84	923.84	923.84	13,798,556	13,798,556

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	44.00	44.00	44.00	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.380000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
NaturalGas Mitigated	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
General Light Industry	51946.4	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Total		0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	50.804	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Total		0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
Unmitigated	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Mitigated	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2200e-003	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Total	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.2200e-003	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436
Total	16.2195	6.1000e-004	0.0645	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.8000e-004		0.1436

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	3	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496
Total	0.6010	8.3379	2.6902	0.0100		0.2721	0.2721		0.2503	0.2503		1,025.2527	1,025.2527	0.3141		1,031.8496

10.0 Vegetation

CALEEMOD EMISSIONS MODEL OUTPUTS

OPERATIONS PLANNING AREA 1B OPERATING YEAR 2017
(HIGH-CUBE WAREHOUSE)

Planning Area 1B High-Cube Warehouse Operations (Cars Only)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	2,386.79	1000sqft	54.79	2,386,793.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	515.47	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblEnergyUse	T24E	0.45	0.35
tblEnergyUse	T24NG	2.11	0.03
tblLandUse	LandUseSquareFeet	2,386,790.00	2,386,793.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00

tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	ST_TR	2.59	1.34
tblVehicleTrips	SU_TR	2.59	1.34
tblVehicleTrips	WD_TR	2.59	1.34
tblWater	IndoorWaterUseRate	551,945,187.50	40,002,350.00

2.0 Emissions Summary

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	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Energy	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
Mobile	7.1669	7.6559	112.1733	0.3180	28.6082	0.1616	28.7699	7.5837	0.1488	7.7325		24,811.0255	24,811.0255	1.0104		24,832.2437
Offroad	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	71.4112	32.7105	120.5245	0.3484	28.6082	0.9816	29.5898	7.5837	0.9035	8.4872		27,933.4647	27,933.4647	1.9551	8.5000e-004	27,974.7850

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Energy	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787
Mobile	7.1669	7.6559	112.1733	0.3180	28.6082	0.1616	28.7699	7.5837	0.1488	7.7325		24,811.0255	24,811.0255	1.0104		24,832.2437
Offroad	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	71.4111	32.7095	120.5236	0.3484	28.6082	0.9815	29.5898	7.5837	0.9034	8.4872		27,932.3108	27,932.3108	1.9551	8.3000e-004	27,973.6240

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.53	76.47	6.70	8.64	0.00	83.15	2.76	0.00	83.11	8.85	0.00	11.02	11.02	48.20	2.35	11.07

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	7.1669	7.6559	112.1733	0.3180	28.6082	0.1616	28.7699	7.5837	0.1488	7.7325		24,811.02 55	24,811.02 55	1.0104		24,832.24 37
Mitigated	7.1669	7.6559	112.1733	0.3180	28.6082	0.1616	28.7699	7.5837	0.1488	7.7325		24,811.02 55	24,811.02 55	1.0104		24,832.24 37

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	3,198.30	3,198.30	3198.30	13,707,020	13,707,020
Total	3,198.30	3,198.30	3,198.30	13,707,020	13,707,020

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
NaturalGas Mitigated	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787

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					
Unrefrigerated Warehouse-No Rail	392.35	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
Total		4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0.382541	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787
Total		4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787

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					
Unmitigated	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Mitigated	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

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	15.1545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0240	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Total	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

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	15.1545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0240	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Total	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	9	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487

10.0 Vegetation

Planning Area 1B High-Cube Warehouse Operations (Trucks Only)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	2,386.79	1000sqft	54.79	2,386,793.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.47	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblEnergyUse	T24E	0.45	0.35
tblEnergyUse	T24NG	2.11	0.03
tblLandUse	LandUseSquareFeet	2,386,790.00	2,386,793.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00

tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	CC_TL	8.40	44.00
tblVehicleTrips	CNW_TL	6.90	44.00
tblVehicleTrips	CW_TL	16.60	44.00
tblVehicleTrips	ST_TR	2.59	0.34
tblVehicleTrips	SU_TR	2.59	0.34
tblVehicleTrips	WD_TR	2.59	0.34
tblWater	IndoorWaterUseRate	551,945,187.50	40,002,350.00

2.0 Emissions Summary

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	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Energy	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
Mobile	17.6394	304.0253	168.3903	0.9527	29.0598	5.2275	34.2873	8.0984	4.8090	12.9075		94,364.58 46	94,364.58 46	0.7394		94,380.11 21
Offroad	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.758 2	3,075.758 2	0.9424		3,095.548 7
Total	81.8836	329.0799	176.7414	0.9830	29.0598	6.0475	35.1073	8.0984	5.5637	13.6622		97,487.02 39	97,487.02 39	1.6842	8.5000e-004	97,522.65 34

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Energy	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787
Mobile	17.6394	304.0253	168.3903	0.9527	29.0598	5.2275	34.2873	8.0984	4.8090	12.9075		94,364.5846	94,364.5846	0.7394		94,380.1121
Offroad	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	81.8835	329.0790	176.7406	0.9830	29.0598	6.0474	35.1072	8.0984	5.5637	13.6621		97,485.8699	97,485.8699	1.6841	8.3000e-004	97,521.4924

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.20	7.60	4.57	3.06	0.00	13.50	2.32	0.00	13.50	5.50	0.00	3.16	3.16	55.96	2.35	3.18

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	17.6394	304.0253	168.3903	0.9527	29.0598	5.2275	34.2873	8.0984	4.8090	12.9075		94,364.58 46	94,364.58 46	0.7394		94,380.11 21
Mitigated	17.6394	304.0253	168.3903	0.9527	29.0598	5.2275	34.2873	8.0984	4.8090	12.9075		94,364.58 46	94,364.58 46	0.7394		94,380.11 21

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	811.51	811.51	811.51	12,120,717	12,120,717
Total	811.51	811.51	811.51	12,120,717	12,120,717

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	44.00	44.00	44.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.180000	0.000000	0.230000	0.590000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
NaturalGas Mitigated	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787

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					
Unrefrigerated Warehouse-No Rail	392.35	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
Total		4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0.382541	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787
Total		4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787

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					
Unmitigated	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Mitigated	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

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	15.1545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0240	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Total	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

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	15.1545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0240	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Total	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	9	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487

10.0 Vegetation

Planning Area 1B High-Cube Warehouse Operations (Cars Only)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	2,386.79	1000sqft	54.79	2,386,793.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.47	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblEnergyUse	T24E	0.45	0.35
tblEnergyUse	T24NG	2.11	0.03
tblLandUse	LandUseSquareFeet	2,386,790.00	2,386,793.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00

tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	ST_TR	2.59	1.34
tblVehicleTrips	SU_TR	2.59	1.34
tblVehicleTrips	WD_TR	2.59	1.34
tblWater	IndoorWaterUseRate	551,945,187.50	40,002,350.00

2.0 Emissions Summary

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	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Energy	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
Mobile	6.6264	8.1289	95.3277	0.2888	28.6082	0.1616	28.7699	7.5837	0.1488	7.7325		22,552.45 24	22,552.45 24	1.0104		22,573.67 06
Offroad	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.758 2	3,075.758 2	0.9424		3,095.548 7
Total	70.8706	33.1835	103.6789	0.3191	28.6082	0.9816	29.5898	7.5837	0.9035	8.4872		25,674.89 17	25,674.89 17	1.9551	8.5000e-004	25,716.21 19

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Energy	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787
Mobile	6.6264	8.1289	95.3277	0.2888	28.6082	0.1616	28.7699	7.5837	0.1488	7.7325		22,552.4524	22,552.4524	1.0104		22,573.6706
Offroad	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	70.8705	33.1825	103.6781	0.3191	28.6082	0.9815	29.5898	7.5837	0.9034	8.4872		25,673.7377	25,673.7377	1.9551	8.3000e-004	25,715.0509

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.54	75.38	7.78	9.43	0.00	83.15	2.76	0.00	83.11	8.85	0.00	11.98	11.98	48.20	2.35	12.04

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	6.6264	8.1289	95.3277	0.2888	28.6082	0.1616	28.7699	7.5837	0.1488	7.7325		22,552.45 24	22,552.45 24	1.0104		22,573.67 06
Mitigated	6.6264	8.1289	95.3277	0.2888	28.6082	0.1616	28.7699	7.5837	0.1488	7.7325		22,552.45 24	22,552.45 24	1.0104		22,573.67 06

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	3,198.30	3,198.30	3198.30	13,707,020	13,707,020
Total	3,198.30	3,198.30	3,198.30	13,707,020	13,707,020

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
NaturalGas Mitigated	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787

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					
Unrefrigerated Warehouse-No Rail	392.35	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
Total		4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0.382541	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787
Total		4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787

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					
Unmitigated	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Mitigated	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

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	15.1545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0240	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Total	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

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	15.1545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0240	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Total	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	9	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487

10.0 Vegetation

Planning Area 1B High-Cube Warehouse Operations (Trucks Only)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	2,386.79	1000sqft	54.79	2,386,793.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.47	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblEnergyUse	T24E	0.45	0.35
tblEnergyUse	T24NG	2.11	0.03
tblLandUse	LandUseSquareFeet	2,386,790.00	2,386,793.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00

tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	LHD2	9.0390e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MCY	4.9210e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MH	2.9320e-003	0.00

tblVehicleEF	MH	2.9320e-003	0.00
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	OBUS	1.1220e-003	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	SBUS	7.1200e-004	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleEF	UBUS	1.3340e-003	0.00
tblVehicleTrips	CC_TL	8.40	44.00
tblVehicleTrips	CNW_TL	6.90	44.00
tblVehicleTrips	CW_TL	16.60	44.00
tblVehicleTrips	ST_TR	2.59	0.34
tblVehicleTrips	SU_TR	2.59	0.34
tblVehicleTrips	WD_TR	2.59	0.34
tblWater	IndoorWaterUseRate	551,945,187.50	40,002,350.00

2.0 Emissions Summary

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	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Energy	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
Mobile	17.9875	316.9154	179.4142	0.9517	29.0598	5.2346	34.2945	8.0984	4.8156	12.9140		94,246.4511	94,246.4511	0.7433		94,262.0598
Offroad	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	82.2317	341.9700	187.7654	0.9820	29.0598	6.0546	35.1144	8.0984	5.5703	13.6687		97,368.8904	97,368.8904	1.6880	8.5000e-004	97,404.6010

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Energy	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787
Mobile	17.9875	316.9154	179.4142	0.9517	29.0598	5.2346	34.2945	8.0984	4.8156	12.9140		94,246.4511	94,246.4511	0.7433		94,262.0598
Offroad	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	82.2316	341.9691	187.7646	0.9820	29.0598	6.0545	35.1144	8.0984	5.5702	13.6686		97,367.7364	97,367.7364	1.6880	8.3000e-004	97,403.4400

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.19	7.31	4.30	3.06	0.00	13.48	2.32	0.00	13.48	5.49	0.00	3.16	3.16	55.83	2.35	3.18

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	17.9875	316.9154	179.4142	0.9517	29.0598	5.2346	34.2945	8.0984	4.8156	12.9140		94,246.45 11	94,246.45 11	0.7433		94,262.05 98
Mitigated	17.9875	316.9154	179.4142	0.9517	29.0598	5.2346	34.2945	8.0984	4.8156	12.9140		94,246.45 11	94,246.45 11	0.7433		94,262.05 98

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	811.51	811.51	811.51	12,120,717	12,120,717
Total	811.51	811.51	811.51	12,120,717	12,120,717

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	44.00	44.00	44.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.180000	0.000000	0.230000	0.590000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
NaturalGas Mitigated	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787

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					
Unrefrigerated Warehouse-No Rail	392.35	4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397
Total		4.2300e-003	0.0385	0.0323	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003		46.1588	46.1588	8.8000e-004	8.5000e-004	46.4397

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	0.382541	4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787
Total		4.1300e-003	0.0375	0.0315	2.3000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		45.0048	45.0048	8.6000e-004	8.3000e-004	45.2787

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					
Unmitigated	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Mitigated	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

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	15.1545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0240	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Total	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

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	15.1545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0240	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529
Total	62.4369	2.3500e-003	0.2483	2.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004		0.5224	0.5224	1.4500e-003		0.5529

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	9	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487
Total	1.8031	25.0138	8.0706	0.0301		0.8162	0.8162		0.7509	0.7509		3,075.7582	3,075.7582	0.9424		3,095.5487

10.0 Vegetation

CALEEMOD EMISSIONS MODEL OUTPUTS

**OPERATIONS PLANNING AREA 1B OPERATING YEAR 2017
CONSOLIDATED (LIGHT INDUSTRIAL + HIGH-CUBE WAREHOUSE)**

PHASE 1B SUMMER 2017 (UNMITIGATED)

Light Industrial Peak Operation Emissions (without Mitigation 2017)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Areal Source	16.22	6.10E-04	0.06	--	2.30E-04	2.30E-04
Energy Source	0.56	5.09	4.28	0.03	0.39	0.39
Mobile (Passenger Cars)	7.69	8.37	122.76	0.35	31.58	8.49
Mobile (Trucks)	17.43	287.94	169.7	0.93	37.03	13.28
Onsite Equipment	0.60	8.34	2.69	0.01	0.27	0.25
Total	42.50	309.74	299.49	1.32	69.27	22.41

High-Cube Warehouse Peak Operation Emissions (without Mitigation 2017)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Areal Source	62.44	2.35E-03	0.25	2.00E-05	9.00E-04	9.00E-04
Energy Source	4.23E-03	0.04	0.03	2.30E-04	2.92E-03	2.92E-03
Mobile (Passenger Cars)	7.17	7.66	112.1	0.32	28.77	7.73
Mobile (Trucks)	17.64	304.03	168.39	0.95	34.29	12.91
Onsite Equipment	1.80	25.01	8.07	0.03	0.82	0.75
Total	89.05	336.74	288.84	1.30	63.88	21.39

Planning Area 1 Peak Operation Emissions (without Mitigation 2017)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Areal Source	78.66	2.96E-03	0.31	2.00E-05	1.13E-03	1.13E-03
Energy Source	0.56	5.13	4.31	0.03	0.39	0.39
Mobile (Passenger Cars)	14.86	16.03	234.86	0.67	60.35	16.22
Mobile (Trucks)	35.07	591.97	338.09	1.88	71.32	26.19
Onsite Equipment	2.40	33.35	10.76	0.04	1.09	1.00
Total	131.55	646.48	588.33	2.62	133.15	43.80

PHASE 1B WINTER 2017 (UNMITIGATED)

Light Industrial Peak Operation Emissions (without Mitigation 2017)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	16.22	6.10E-04	0.06	--	2.30E-04	2.30E-04
Energy Source	0.56	5.09	4.28	0.03	0.39	0.39
Mobile (Passenger Cars)	7.11	8.89	104.16	0.32	31.58	8.49
Mobile (Trucks)	17.72	300.47	178.93	0.93	37.04	13.28
Onsite Equipment	0.60	8.34	2.69	0.01	0.27	0.25
Total	42.21	322.79	290.12	1.29	69.28	22.41

High-Cube Warehouse Peak Operation Emissions (without Mitigation 2017)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	62.44	2.35E-03	0.25	2.00E-05	9.00E-04	9.00E-04
Energy Source	4.23E-03	0.04	0.03	2.30E-04	2.92E-03	2.92E-03
Mobile (Passenger Cars)	6.63	8.13	95.33	0.29	28.77	7.73
Mobile (Trucks)	17.99	316.92	179.41	0.95	34.29	12.91
Onsite Equipment	1.80	25.01	8.07	0.03	0.82	0.75
Total	88.86	350.10	283.09	1.27	63.88	21.39

Planning Area 1 Peak Operation Emissions (without Mitigation 2017)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	78.66	2.96E-03	0.31	2.00E-05	1.13E-03	1.13E-03
Energy Source	0.56	5.13	4.31	0.03	0.39	0.39
Mobile (Passenger Cars)	13.74	17.02	199.49	0.61	60.35	16.22
Mobile (Trucks)	35.71	617.39	358.34	1.88	71.33	26.19
Onsite Equipment	2.40	33.35	10.76	0.04	1.09	1.00
Total	131.07	672.89	573.21	2.56	133.16	43.80

PHASE 1B SUMMER 2017 (MITIGATED)

Light Industrial Peak Operation Emissions (with Mitigation 2017)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	16.22	6.10E-04	0.06	--	2.30E-04	2.30E-04
Energy Source	0.55	4.98	4.18	0.03	0.38	0.38
Mobile (Passenger Cars)	7.69	8.37	122.76	0.35	31.58	8.49
Mobile (Trucks)	17.43	287.94	169.7	0.93	37.03	13.28
Onsite Equipment	0.60	8.34	2.69	0.01	0.27	0.25
Total	42.49	309.63	299.39	1.32	69.26	22.40

High-Cube Warehouse Peak Operation Emissions (with Mitigation 2017)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	62.44	2.35E-03	0.25	2.00E-05	9.00E-04	9.00E-04
Energy Source	4.13E-03	0.04	0.03	2.30E-04	2.85E-03	2.85E-03
Mobile (Passenger Cars)	7.17	7.66	112.17	0.32	28.77	7.73
Mobile (Trucks)	17.64	304.03	168.39	0.95	34.29	12.91
Onsite Equipment	1.80	25.01	8.07	0.03	0.82	0.75
Total	89.05	336.74	288.91	1.30	63.88	21.39

Planning Area 1 Peak Operation Emissions (with Mitigation 2017)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	78.66	2.96E-03	0.31	2.00E-05	1.13E-03	1.13E-03
Energy Source	0.55	5.02	4.21	0.03	0.38	0.38
Mobile (Passenger Cars)	14.86	16.03	234.93	0.67	60.35	16.22
Mobile (Trucks)	35.07	591.97	338.09	1.88	71.32	26.19
Onsite Equipment	2.40	33.35	10.76	0.04	1.09	1.00
Total	131.54	646.37	588.30	2.62	133.14	43.79

PHASE 1B WINTER 2017 (MITIGATED)

Light Industrial Peak Operation Emissions (with Mitigation 2017)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	16.22	6.10E-04	0.06	--	2.30E-04	2.30E-04
Energy Source	0.55	4.98	4.18	0.03	0.38	0.38
Mobile (Passenger Cars)	7.11	8.89	104.16	0.32	31.58	8.49
Mobile (Trucks)	17.72	300.47	178.93	0.93	37.04	13.28
Onsite Equipment	0.60	8.34	2.69	0.01	0.27	0.25
Total	42.20	322.68	290.02	1.29	69.27	22.40

High-Cube Warehouse Peak Operation Emissions (with Mitigation 2017)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	62.44	2.35E-03	0.25	2.00E-05	9.00E-04	9.00E-04
Energy Source	4.13E-03	0.04	0.03	2.30E-04	2.85E-03	2.85E-03
Mobile (Passenger Cars)	6.63	8.13	95.33	0.29	28.77	7.73
Mobile (Trucks)	17.99	316.92	179.41	0.95	34.29	12.91
Onsite Equipment	1.80	25.01	8.07	0.03	0.82	0.75
Total	88.86	350.10	283.09	1.27	63.88	21.39

Planning Area 1 Peak Operation Emissions (with Mitigation 2017)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	78.66	2.96E-03	0.31	2.00E-05	1.13E-03	1.13E-03
Energy Source	0.55	5.02	4.21	0.03	0.38	0.38
Mobile (Passenger Cars)	13.74	17.02	199.49	0.61	60.35	16.22
Mobile (Trucks)	35.71	617.39	358.34	1.88	71.33	26.19
Onsite Equipment	2.40	33.35	10.76	0.04	1.09	1.00
Total	131.06	672.78	573.11	2.56	133.15	43.79

CALEEMOD EMISSIONS MODEL OUTPUTS
OPERATIONS PLANNING AREA 2 OPERATING YEAR 2017

Planning Area 2 Shopping Center (2017 Operations)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	86.00	1000sqft	1.97	86,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	515.47	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on Table A in the TIA

Construction Phase - Construction emissions modeled separately

Off-road Equipment - Construction emissions modeled separately

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,200 gpd/ac

Energy Mitigation -

Water Mitigation -

Vehicle Trips - based on the daily TR from the Project TIA

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	5.60	4.38
tblEnergyUse	T24NG	2.02	1.68
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	WD_TR	42.94	42.70
tblWater	IndoorWaterUseRate	6,370,236.85	1,585,365.00
tblWater	OutdoorWaterUseRate	3,904,338.71	0.00

2.0 Emissions Summary

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	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Energy	5.0300e-003	0.0457	0.0384	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003		54.8848	54.8848	1.0500e-003	1.0100e-003	55.2188
Mobile	14.4164	35.2497	140.6546	0.3063	19.7159	0.4625	20.1784	5.2657	0.4256	5.6913		26,110.5418	26,110.5418	0.9601		26,130.7031
Total	16.6711	35.2956	140.7020	0.3066	19.7159	0.4660	20.1820	5.2657	0.4291	5.6948		26,165.4454	26,165.4454	0.9612	1.0100e-003	26,185.9418

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	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Energy	4.8200e-003	0.0438	0.0368	2.6000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003		52.5563	52.5563	1.0100e-003	9.6000e-004	52.8762
Mobile	14.4164	35.2497	140.6546	0.3063	19.7159	0.4625	20.1784	5.2657	0.4256	5.6913		26,110.5418	26,110.5418	0.9601		26,130.7031
Total	16.6709	35.2936	140.7004	0.3066	19.7159	0.4659	20.1818	5.2657	0.4290	5.6946		26,163.1169	26,163.1169	0.9611	9.6000e-004	26,183.5992

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.01	0.01	0.00	4.95	0.01

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Demolition	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
Demolition	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 Demolition - 2015

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	0.0000	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

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 Demolition - 2015

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	0.0000	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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	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	14.4164	35.2497	140.6546	0.3063	19.7159	0.4625	20.1784	5.2657	0.4256	5.6913		26,110.54 18	26,110.54 18	0.9601		26,130.70 31
Unmitigated	14.4164	35.2497	140.6546	0.3063	19.7159	0.4625	20.1784	5.2657	0.4256	5.6913		26,110.54 18	26,110.54 18	0.9601		26,130.70 31

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	3,672.20	4,297.42	2170.64	7,671,626	7,671,626
Total	3,672.20	4,297.42	2,170.64	7,671,626	7,671,626

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471808	0.065740	0.172776	0.155900	0.055970	0.009039	0.016651	0.041094	0.001122	0.001334	0.004921	0.000712	0.002932

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.8200e-003	0.0438	0.0368	2.6000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003		52.5563	52.5563	1.0100e-003	9.6000e-004	52.8762
NaturalGas Unmitigated	5.0300e-003	0.0457	0.0384	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003		54.8848	54.8848	1.0500e-003	1.0100e-003	55.2188

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					
Regional Shopping Center	466.521	5.0300e-003	0.0457	0.0384	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003		54.8848	54.8848	1.0500e-003	1.0100e-003	55.2188
Total		5.0300e-003	0.0457	0.0384	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003		54.8848	54.8848	1.0500e-003	1.0100e-003	55.2188

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	0.446729	4.8200e-003	0.0438	0.0368	2.6000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003		52.5563	52.5563	1.0100e-003	9.6000e-004	52.8762
Total		4.8200e-003	0.0438	0.0368	2.6000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003		52.5563	52.5563	1.0100e-003	9.6000e-004	52.8762

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	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Unmitigated	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199

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					
Consumer Products	1.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Architectural Coating	0.5460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199

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					
Consumer Products	1.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Architectural Coating	0.5460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 Vegetation

Planning Area 2 Shopping Center (2017 Operations)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	86.00	1000sqft	1.97	86,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	515.47	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on Table A in the TIA

Construction Phase - Construction emissions modeled separately

Off-road Equipment - Construction emissions modeled separately

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,200 gpd/ac

Energy Mitigation -

Water Mitigation -

Vehicle Trips - based on the daily TR from the Project TIA

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	5.60	4.38
tblEnergyUse	T24NG	2.02	1.68
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	515.47
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	WD_TR	42.94	42.70
tblWater	IndoorWaterUseRate	6,370,236.85	1,585,365.00
tblWater	OutdoorWaterUseRate	3,904,338.71	0.00

2.0 Emissions Summary

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	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Energy	5.0300e-003	0.0457	0.0384	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003		54.8848	54.8848	1.0500e-003	1.0100e-003	55.2188
Mobile	13.9864	36.7074	135.1320	0.2855	19.7159	0.4653	20.1812	5.2657	0.4282	5.6938		24,422.3919	24,422.3919	0.9615		24,442.5840
Total	16.2411	36.7532	135.1794	0.2858	19.7159	0.4688	20.1847	5.2657	0.4317	5.6973		24,477.2955	24,477.2955	0.9626	1.0100e-003	24,497.8228

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	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Energy	4.8200e-003	0.0438	0.0368	2.6000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003		52.5563	52.5563	1.0100e-003	9.6000e-004	52.8762
Mobile	13.9864	36.7074	135.1320	0.2855	19.7159	0.4653	20.1812	5.2657	0.4282	5.6938		24,422.3919	24,422.3919	0.9615		24,442.5840
Total	16.2409	36.7512	135.1778	0.2858	19.7159	0.4687	20.1846	5.2657	0.4315	5.6972		24,474.9671	24,474.9671	0.9626	9.6000e-004	24,495.4801

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.01	0.01	0.00	4.95	0.01

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Demolition	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
Demolition	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 Demolition - 2015

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	0.0000	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

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 Demolition - 2015

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	0.0000	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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	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	13.9864	36.7074	135.1320	0.2855	19.7159	0.4653	20.1812	5.2657	0.4282	5.6938		24,422.39 19	24,422.39 19	0.9615		24,442.58 40
Unmitigated	13.9864	36.7074	135.1320	0.2855	19.7159	0.4653	20.1812	5.2657	0.4282	5.6938		24,422.39 19	24,422.39 19	0.9615		24,442.58 40

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	3,672.20	4,297.42	2170.64	7,671,626	7,671,626
Total	3,672.20	4,297.42	2,170.64	7,671,626	7,671,626

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471808	0.065740	0.172776	0.155900	0.055970	0.009039	0.016651	0.041094	0.001122	0.001334	0.004921	0.000712	0.002932

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.8200e-003	0.0438	0.0368	2.6000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003		52.5563	52.5563	1.0100e-003	9.6000e-004	52.8762
NaturalGas Unmitigated	5.0300e-003	0.0457	0.0384	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003		54.8848	54.8848	1.0500e-003	1.0100e-003	55.2188

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					
Regional Shopping Center	466.521	5.0300e-003	0.0457	0.0384	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003		54.8848	54.8848	1.0500e-003	1.0100e-003	55.2188
Total		5.0300e-003	0.0457	0.0384	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003		54.8848	54.8848	1.0500e-003	1.0100e-003	55.2188

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	0.446729	4.8200e-003	0.0438	0.0368	2.6000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003		52.5563	52.5563	1.0100e-003	9.6000e-004	52.8762
Total		4.8200e-003	0.0438	0.0368	2.6000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003		52.5563	52.5563	1.0100e-003	9.6000e-004	52.8762

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	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Unmitigated	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Total	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199

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					
Consumer Products	1.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199
Architectural Coating	0.5460					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2497	8.0000e-005	8.9500e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0188	0.0188	5.0000e-005		0.0199

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 Vegetation

CALEEMOD EMISSIONS MODEL OUTPUTS

OPERATIONS PLANNING AREA 1B OPERATING YEAR 2020 (LIGHT INDUSTRIAL)

Planning Area 1B Light Industrial Operations (Cars Only)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	2.69	2.10
tblEnergyUse	T24NG	16.16	13.45
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00

tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleTrips	ST_TR	1.32	5.48
tblVehicleTrips	SU_TR	0.68	5.48
tblVehicleTrips	WD_TR	6.97	5.48
tblWater	IndoorWaterUseRate	143,381,937.50	10,390,791.00

2.0 Emissions Summary

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	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Energy	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Mobile	5.4609	6.5081	93.7659	0.3470	31.4034	0.1817	31.5850	8.3247	0.1684	8.4931		23,751.1659	23,751.1659	0.8996		23,770.0574
Offroad	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	22.7052	17.2513	100.5754	0.3876	31.4034	0.7543	32.1576	8.3247	0.7262	9.0509		30,833.5284	30,833.5284	1.3311	0.1120	30,896.2142

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Energy	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Mobile	5.4796	6.5839	94.8688	0.3514	31.8083	0.1837	31.9920	8.4320	0.1703	8.6023		24,052.3496	24,052.3496	0.9107		24,071.4736
Offroad	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	22.7115	17.2151	101.5841	0.3914	31.8083	0.7478	32.5560	8.4320	0.7195	9.1516		31,000.3146	31,000.3146	1.3396	0.1096	31,062.4150

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.02	32.96	1.45	1.63	-1.29	25.43	-0.66	-1.29	24.39	0.77	0.00	2.61	2.61	22.95	2.20	2.63

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	5.4609	6.5081	93.7659	0.3470	31.4034	0.1817	31.5850	8.3247	0.1684	8.4931		23,751.1659	23,751.1659	0.8996		23,770.0574
Mitigated	5.4796	6.5839	94.8688	0.3514	31.8083	0.1837	31.9920	8.4320	0.1703	8.6023		24,052.3496	24,052.3496	0.9107		24,071.4736

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	3,397.76	3,397.76	3,397.76	15,046,244	15,240,252
Total	3,397.76	3,397.76	3,397.76	15,046,244	15,240,252

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
NaturalGas Mitigated	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
General Light Industry	51946.4	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Total		0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	50.804	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Total		0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
Unmitigated	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Mitigated	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Total	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Total	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	3	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830

10.0 Vegetation

Planning Area 1B Light Industrial Operations (Trucks Only)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	2.69	2.10
tblEnergyUse	T24NG	16.16	13.45
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00

tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleTrips	CC_TL	8.40	44.00
tblVehicleTrips	CNW_TL	6.90	44.00
tblVehicleTrips	CW_TL	16.60	44.00
tblVehicleTrips	ST_TR	1.32	1.49
tblVehicleTrips	SU_TR	0.68	1.49
tblVehicleTrips	WD_TR	6.97	1.49
tblWater	IndoorWaterUseRate	143,381,937.50	10,390,791.00

2.0 Emissions Summary

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	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004			0.1433
Energy	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120		6,148.5304
Mobile	15.1744	214.0936	148.7823	0.9237	32.3347	4.2286	36.5633	8.9573	3.8904	12.8477		86,383.4474	86,383.4474	0.7836			86,399.9035
Offroad	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140			977.4830
Total	32.4187	224.8368	155.5917	0.9643	32.3347	4.8012	37.1359	8.9573	4.4482	13.4054		93,465.8098	93,465.8098	1.2151	0.1120		93,526.0602

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Energy	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Mobile	15.1744	214.0936	148.7823	0.9237	32.3347	4.2286	36.5633	8.9573	3.8904	12.8477		86,383.4474	86,383.4474	0.7836		86,399.9035
Offroad	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	32.4064	224.7248	155.4977	0.9636	32.3347	4.7927	37.1274	8.9573	4.4396	13.3969		93,331.4124	93,331.4124	1.2126	0.1096	93,390.8448

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.47	2.56	1.65	1.11	0.00	4.04	0.52	0.00	4.02	1.34	0.00	1.18	1.18	26.05	2.20	1.19

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	15.1744	214.0936	148.7823	0.9237	32.3347	4.2286	36.5633	8.9573	3.8904	12.8477		86,383.44 74	86,383.44 74	0.7836		86,399.90 35
Mitigated	15.1744	214.0936	148.7823	0.9237	32.3347	4.2286	36.5633	8.9573	3.8904	12.8477		86,383.44 74	86,383.44 74	0.7836		86,399.90 35

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	923.84	923.84	923.84	13,798,556	13,798,556
Total	923.84	923.84	923.84	13,798,556	13,798,556

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	44.00	44.00	44.00	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.380000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
NaturalGas Mitigated	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
General Light Industry	51946.4	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Total		0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	50.804	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Total		0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
Unmitigated	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Mitigated	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Total	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Total	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	3	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830

10.0 Vegetation

Planning Area 1B Light Industrial Operations (Cars Only)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	2.69	2.10
tblEnergyUse	T24NG	16.16	13.45
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00

tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleTrips	ST_TR	1.32	5.48
tblVehicleTrips	SU_TR	0.68	5.48
tblVehicleTrips	WD_TR	6.97	5.48
tblWater	IndoorWaterUseRate	143,381,937.50	10,390,791.00

2.0 Emissions Summary

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	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Energy	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Mobile	5.0437	6.8920	78.9637	0.3150	31.4034	0.1817	31.5850	8.3247	0.1684	8.4931		21,584.9725	21,584.9725	0.8996		21,603.8640
Offroad	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	22.2879	17.6351	85.7731	0.3556	31.4034	0.7543	32.1576	8.3247	0.7262	9.0509		28,667.3350	28,667.3350	1.3311	0.1120	28,730.0208

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004			0.1433
Energy	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096		6,013.3150
Mobile	5.0598	6.9721	79.8437	0.3190	31.8083	0.1837	31.9920	8.4320	0.1703	8.6023		21,858.2249	21,858.2249	0.9107			21,877.3489
Offroad	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140			977.4830
Total	22.2917	17.6033	86.5591	0.3589	31.8083	0.7478	32.5560	8.4320	0.7195	9.1516		28,806.1899	28,806.1899	1.3396	0.1096		28,868.2903

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.07	32.22	1.96	1.89	-1.29	25.43	-0.66	-1.29	24.39	0.77	0.00	2.90	2.90	22.95	2.20	2.92

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	5.0437	6.8920	78.9637	0.3150	31.4034	0.1817	31.5850	8.3247	0.1684	8.4931		21,584.9725	21,584.9725	0.8996		21,603.8640
Mitigated	5.0598	6.9721	79.8437	0.3190	31.8083	0.1837	31.9920	8.4320	0.1703	8.6023		21,858.2249	21,858.2249	0.9107		21,877.3489

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	3,397.76	3,397.76	3,397.76	15,046,244	15,240,252
Total	3,397.76	3,397.76	3,397.76	15,046,244	15,240,252

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
NaturalGas Mitigated	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
General Light Industry	51946.4	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Total		0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	50.804	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Total		0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
Unmitigated	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Mitigated	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Total	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Total	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	3	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830

10.0 Vegetation

Planning Area 1B Light Industrial Operations (Trucks Only)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	620.03	1000sqft	14.23	620,027.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblEnergyUse	T24E	2.69	2.10
tblEnergyUse	T24NG	16.16	13.45
tblLandUse	LandUseSquareFeet	620,030.00	620,027.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	HHD	0.04	0.44
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD1	0.06	0.38
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00

tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	MHD	0.02	0.18
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleTrips	CC_TL	8.40	44.00
tblVehicleTrips	CNW_TL	6.90	44.00
tblVehicleTrips	CW_TL	16.60	44.00
tblVehicleTrips	ST_TR	1.32	1.49
tblVehicleTrips	SU_TR	0.68	1.49
tblVehicleTrips	WD_TR	6.97	1.49
tblWater	IndoorWaterUseRate	143,381,937.50	10,390,791.00

2.0 Emissions Summary

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	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Energy	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Mobile	15.4269	223.3659	158.4330	0.9228	32.3347	4.2334	36.5681	8.9573	3.8948	12.8521		86,286.8221	86,286.8221	0.7872		86,303.3534
Offroad	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	32.6712	234.1091	165.2424	0.9634	32.3347	4.8060	37.1407	8.9573	4.4526	13.4098		93,369.1846	93,369.1846	1.2187	0.1120	93,429.5102

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004			0.1433
Energy	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096		6,013.3150
Mobile	15.4269	223.3659	158.4330	0.9228	32.3347	4.2334	36.5681	8.9573	3.8948	12.8521		86,286.8221	86,286.8221	0.7872			86,303.3534
Offroad	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140			977.4830
Total	32.6589	233.9971	165.1483	0.9627	32.3347	4.7975	37.1322	8.9573	4.4440	13.4013		93,234.7871	93,234.7871	1.2161	0.1096		93,294.2948

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.46	2.46	1.55	1.11	0.00	4.03	0.52	0.00	4.02	1.33	0.00	1.18	1.18	25.98	2.20	1.19

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	15.4269	223.3659	158.4330	0.9228	32.3347	4.2334	36.5681	8.9573	3.8948	12.8521		86,286.82 21	86,286.82 21	0.7872		86,303.35 34
Mitigated	15.4269	223.3659	158.4330	0.9228	32.3347	4.2334	36.5681	8.9573	3.8948	12.8521		86,286.82 21	86,286.82 21	0.7872		86,303.35 34

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	923.84	923.84	923.84	13,798,556	13,798,556
Total	923.84	923.84	923.84	13,798,556	13,798,556

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	44.00	44.00	44.00	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.380000	0.000000	0.180000	0.440000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
NaturalGas Mitigated	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
General Light Industry	51946.4	0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304
Total		0.5602	5.0928	4.2779	0.0306		0.3871	0.3871		0.3871	0.3871		6,111.3378	6,111.3378	0.1171	0.1120	6,148.5304

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	50.804	0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150
Total		0.5479	4.9808	4.1839	0.0299		0.3785	0.3785		0.3785	0.3785		5,976.9404	5,976.9404	0.1146	0.1096	6,013.3150

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					
Unmitigated	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Mitigated	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Total	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

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	3.9368					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.2765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.9900e-003	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433
Total	16.2193	5.9000e-004	0.0637	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1357	0.1357	3.6000e-004		0.1433

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	3	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830
Total	0.4648	5.6498	2.4678	0.0100		0.1853	0.1853		0.1705	0.1705		970.8889	970.8889	0.3140		977.4830

10.0 Vegetation

CALEEMOD EMISSIONS MODEL OUTPUTS

OPERATIONS PLANNING AREA 1B OPERATING YEAR 2020
(HIGH-CUBE WAREHOUSE)

Planning Area 1B High-Cube Warehouse Operations (Cars Only)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	2,386.97	1000sqft	54.80	2,386,973.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblEnergyUse	T24E	0.45	0.35
tblEnergyUse	T24NG	2.11	1.76
tblLandUse	LandUseSquareFeet	2,386,970.00	2,386,973.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00

tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleTrips	ST_TR	2.59	1.34
tblVehicleTrips	SU_TR	2.59	1.34
tblVehicleTrips	WD_TR	2.59	1.34
tblWater	IndoorWaterUseRate	551,986,812.50	40,002,350.00

2.0 Emissions Summary

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	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Energy	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
Mobile	5.0968	5.9482	85.6761	0.3164	28.6104	0.1663	28.7767	7.5843	0.1542	7.7385		21,650.6840	21,650.6840	0.8208		21,667.9213
Offroad	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	69.0581	24.0476	94.2889	0.3534	28.6104	0.8103	29.4207	7.5843	0.7537	8.3380		25,941.0469	25,941.0469	1.7906	0.0253	25,986.4772

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Energy	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384
Mobile	5.1139	6.0173	86.6809	0.3204	28.9793	0.1681	29.1474	7.6821	0.1559	7.8380		21,925.0809	21,925.0809	0.8309		21,942.5300
Offroad	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	69.0689	24.0602	95.2462	0.3570	28.9793	0.8079	29.7872	7.6821	0.7511	8.4332		26,147.7391	26,147.7391	1.7994	0.0240	26,192.9692

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.00	70.43	6.84	7.48	-1.29	68.91	0.64	-1.29	68.20	4.99	0.00	10.43	10.43	52.12	4.91	10.49

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	5.0968	5.9482	85.6761	0.3164	28.6104	0.1663	28.7767	7.5843	0.1542	7.7385		21,650.6840	21,650.6840	0.8208		21,667.9213
Mitigated	5.1139	6.0173	86.6809	0.3204	28.9793	0.1681	29.1474	7.6821	0.1559	7.8380		21,925.0809	21,925.0809	0.8309		21,942.5300

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	3,198.54	3,198.54	3198.54	13,708,053	13,884,807
Total	3,198.54	3,198.54	3,198.54	13,708,053	13,884,807

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
NaturalGas Mitigated	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384

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					
Unrefrigerated Warehouse-No Pail	11706	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
Total		0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	11.1305	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384
Total		0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384

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					
Unmitigated	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Mitigated	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

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	15.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0231	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Total	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

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	15.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0231	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Total	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	9	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490

10.0 Vegetation

Planning Area 1B High-Cube Warehouse Operations (Trucks Only)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	2,386.97	1000sqft	54.80	2,386,973.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblEnergyUse	T24E	0.45	0.35
tblEnergyUse	T24NG	2.11	1.76
tblLandUse	LandUseSquareFeet	2,386,970.00	2,386,973.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00

tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleTrips	CC_TL	8.40	44.00
tblVehicleTrips	CNW_TL	6.90	44.00
tblVehicleTrips	CW_TL	16.60	44.00
tblVehicleTrips	ST_TR	2.59	0.34
tblVehicleTrips	SU_TR	2.59	0.34
tblVehicleTrips	WD_TR	2.59	0.34
tblWater	IndoorWaterUseRate	551,986,812.50	40,002,350.00

2.0 Emissions Summary

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	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Energy	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
Mobile	15.6704	224.7480	151.7145	0.9439	29.0593	4.7409	33.8002	8.0975	4.3616	12.4591		88,599.4329	88,599.4329	0.6736		88,613.5792
Offroad	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	79.6317	242.8474	160.3273	0.9809	29.0593	5.3849	34.4442	8.0975	4.9612	13.0587		92,889.7958	92,889.7958	1.6435	0.0253	92,932.1350

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Energy	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384
Mobile	15.6704	224.7480	151.7145	0.9439	29.0593	4.7409	33.8002	8.0975	4.3616	12.4591		88,599.4329	88,599.4329	0.6736		88,613.5792
Offroad	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	79.6255	242.7910	160.2799	0.9806	29.0593	5.3806	34.4399	8.0975	4.9569	13.0544		92,822.0911	92,822.0911	1.6422	0.0240	92,864.0184

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.76	7.00	4.65	3.10	0.00	10.40	1.63	0.00	10.40	3.95	0.00	3.21	3.21	57.40	4.91	3.23

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	15.6704	224.7480	151.7145	0.9439	29.0593	4.7409	33.8002	8.0975	4.3616	12.4591		88,599.43 29	88,599.43 29	0.6736		88,613.57 92
Mitigated	15.6704	224.7480	151.7145	0.9439	29.0593	4.7409	33.8002	8.0975	4.3616	12.4591		88,599.43 29	88,599.43 29	0.6736		88,613.57 92

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	811.57	811.57	811.57	12,121,632	12,121,632
Total	811.57	811.57	811.57	12,121,632	12,121,632

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	44.00	44.00	44.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.180000	0.000000	0.230000	0.590000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
NaturalGas Mitigated	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384

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					
Unrefrigerated Warehouse-No Rail	11706	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
Total		0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	11.1305	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384
Total		0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384

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					
Unmitigated	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Mitigated	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

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	15.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0231	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Total	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

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	15.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0231	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Total	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	9	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490

10.0 Vegetation

Planning Area 1B High-Cube Warehouse Operations (Cars Only)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	2,386.97	1000sqft	54.80	2,386,973.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblEnergyUse	T24E	0.45	0.35
tblEnergyUse	T24NG	2.11	1.76
tblLandUse	LandUseSquareFeet	2,386,970.00	2,386,973.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	HHD	0.04	0.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDA	0.47	1.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD1	0.06	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00

tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	MHD	0.02	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleTrips	ST_TR	2.59	1.34
tblVehicleTrips	SU_TR	2.59	1.34
tblVehicleTrips	WD_TR	2.59	1.34
tblWater	IndoorWaterUseRate	551,986,812.50	40,002,350.00

2.0 Emissions Summary

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	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Energy	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
Mobile	4.7101	6.2995	72.2654	0.2872	28.6104	0.1663	28.7767	7.5843	0.1542	7.7385		19,677.1486	19,677.1486	0.8208		19,694.3859
Offroad	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	68.6713	24.3988	80.8781	0.3242	28.6104	0.8103	29.4207	7.5843	0.7537	8.3380		23,967.5115	23,967.5115	1.7906	0.0253	24,012.9418

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Energy	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384
Mobile	4.7247	6.3725	73.0672	0.2908	28.9793	0.1681	29.1474	7.6821	0.1559	7.8380		19,926.0983	19,926.0983	0.8309		19,943.5475
Offroad	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	68.6798	24.4154	81.6325	0.3275	28.9793	0.8079	29.7872	7.6821	0.7511	8.4332		24,148.7566	24,148.7566	1.7994	0.0240	24,193.9867

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.02	69.40	8.22	8.27	-1.29	68.91	0.64	-1.29	68.20	4.99	0.00	11.40	11.40	52.12	4.91	11.46

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	4.7101	6.2995	72.2654	0.2872	28.6104	0.1663	28.7767	7.5843	0.1542	7.7385		19,677.1486	19,677.1486	0.8208		19,694.3859
Mitigated	4.7247	6.3725	73.0672	0.2908	28.9793	0.1681	29.1474	7.6821	0.1559	7.8380		19,926.0983	19,926.0983	0.8309		19,943.5475

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	3,198.54	3,198.54	3198.54	13,708,053	13,884,807
Total	3,198.54	3,198.54	3,198.54	13,708,053	13,884,807

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
NaturalGas Mitigated	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384

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					
Unrefrigerated Warehouse-No Pail	11706	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
Total		0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	11.1305	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384
Total		0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384

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					
Unmitigated	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Mitigated	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

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	15.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0231	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Total	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

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	15.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0231	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Total	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	9	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490

10.0 Vegetation

Planning Area 1B High-Cube Warehouse Operations (Trucks Only)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	2,386.97	1000sqft	54.80	2,386,973.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	466.91	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - based on the Proposed Project Development Summary Table 2-1 in the TIA

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Vehicle Emission Factors - fleet mix based on the TIA by linscott & Greenspan Table 2-2 Project Generation Rates Summary for Planning Area (PA) 1

Consumer Products -

Energy Use - Title-24 Electricity Energy Intensity and Title-24 Natural Gas Energy Intensity were adjusted by 21.8% and 16.8% respectively, to reflect 2013 Title 24 requirements. Source: Impact Analysis California's 2013 Building Energy Efficiency Standards (CEC 2013)

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment. Based on Table 1-3 Industrial land uses have a water demand of 2,000 gpd/ac

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - based on CARB Cargo Handling Equipment Yard Truck Emission Testing Report. hours per day based on the Port of Long Beach Air Emissions Inventory (July 2013)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblEnergyUse	T24E	0.45	0.35
tblEnergyUse	T24NG	2.11	1.76
tblLandUse	LandUseSquareFeet	2,386,970.00	2,386,973.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.39

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	9.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	HHD	0.04	0.59
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDA	0.47	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT1	0.07	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LDT2	0.17	0.00
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD1	0.06	0.18
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	LHD2	9.0790e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MCY	5.0120e-003	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MDV	0.16	0.00
tblVehicleEF	MH	2.9620e-003	0.00

tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MH	2.9620e-003	0.00
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	MHD	0.02	0.23
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	OBUS	1.1080e-003	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	SBUS	6.7200e-004	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleEF	UBUS	1.3370e-003	0.00
tblVehicleTrips	CC_TL	8.40	44.00
tblVehicleTrips	CNW_TL	6.90	44.00
tblVehicleTrips	CW_TL	16.60	44.00
tblVehicleTrips	ST_TR	2.59	0.34
tblVehicleTrips	SU_TR	2.59	0.34
tblVehicleTrips	WD_TR	2.59	0.34
tblWater	IndoorWaterUseRate	551,986,812.50	40,002,350.00

2.0 Emissions Summary

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	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Energy	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
Mobile	15.9631	234.2151	163.0969	0.9429	29.0593	4.7464	33.8057	8.0975	4.3667	12.4642		88,487.2583	88,487.2583	0.6778		88,501.4927
Offroad	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	79.9244	252.3144	171.7096	0.9799	29.0593	5.3905	34.4498	8.0975	4.9663	13.0638		92,777.6212	92,777.6212	1.6477	0.0253	92,820.0486

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Energy	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384
Mobile	15.9631	234.2151	163.0969	0.9429	29.0593	4.7464	33.8057	8.0975	4.3667	12.4642		88,487.2583	88,487.2583	0.6778		88,501.4927
Offroad	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	79.9182	252.2580	171.6622	0.9795	29.0593	5.3862	34.4455	8.0975	4.9620	13.0595		92,709.9166	92,709.9166	1.6464	0.0240	92,751.9319

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.75	6.74	4.34	3.11	0.00	10.39	1.63	0.00	10.38	3.95	0.00	3.21	3.21	57.25	4.91	3.23

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

3.2 Demolition - 2015

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

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	0.0000	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

3.2 Demolition - 2015

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					
Unmitigated	15.9631	234.2151	163.0969	0.9429	29.0593	4.7464	33.8057	8.0975	4.3667	12.4642		88,487.25 83	88,487.25 83	0.6778		88,501.49 27
Mitigated	15.9631	234.2151	163.0969	0.9429	29.0593	4.7464	33.8057	8.0975	4.3667	12.4642		88,487.25 83	88,487.25 83	0.6778		88,501.49 27

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	811.57	811.57	811.57	12,121,632	12,121,632
Total	811.57	811.57	811.57	12,121,632	12,121,632

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unrefrigerated Warehouse-No	44.00	44.00	44.00	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.000000	0.000000	0.000000	0.000000	0.180000	0.000000	0.230000	0.590000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
NaturalGas Mitigated	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384

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					
Unrefrigerated Warehouse-No Rail	11706	0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550
Total		0.1262	1.1476	0.9640	6.8900e-003		0.0872	0.0872		0.0872	0.0872		1,377.1738	1,377.1738	0.0264	0.0253	1,385.5550

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	11.1305	0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384
Total		0.1200	1.0912	0.9166	6.5500e-003		0.0829	0.0829		0.0829	0.0829		1,309.4692	1,309.4692	0.0251	0.0240	1,317.4384

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					
Unmitigated	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Mitigated	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

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	15.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0231	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Total	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

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	15.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	47.2621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0231	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518
Total	62.4408	2.2600e-003	0.2453	2.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		0.5224	0.5224	1.4000e-003		0.5518

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
Tractors/Loaders/Backhoes	9	4.00	260	200	0.39	Diesel

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490
Total	1.3943	16.9495	7.4035	0.0301		0.5559	0.5559		0.5115	0.5115		2,912.6667	2,912.6667	0.9420		2,932.4490

10.0 Vegetation

CALEEMOD EMISSIONS MODEL OUTPUTS

OPERATIONS PLANNING AREA 1B OPERATING YEAR 2020 CONSOLIDATED
(LIGHT INDUSTRIAL + HIGH-CUBE WAREHOUSE)

PHASE 1B SUMMER 2020 (UNMITIGATED)

Light Industrial Peak Operation Emissions (without Mitigation 2020)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	16.22	5.90E-04	0.06	--	2.30E-04	2.30E-04
Energy Source	0.56	5.09	4.28	0.03	0.39	0.39
Mobile (Passenger Cars)	5.46	6.51	93.77	0.35	31.59	8.49
Mobile (Trucks)	15.17	214.09	148.78	0.92	36.56	12.85
Onsite Equipment	0.46	5.65	2.47	0.01	0.19	0.17
Total	37.87	231.34	249.36	1.31	68.73	21.90

High-Cube Warehouse Peak Operation Emissions (without Mitigation 2020)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	62.44	2.26E-03	0.25	2.00E-05	8.80E-04	8.80E-04
Energy Source	0.13	1.15	0.96	6.89E-03	0.09	0.09
Mobile (Passenger Cars)	5.1	5.95	85.68	0.32	28.78	7.74
Mobile (Trucks)	15.67	224.75	151.71	0.94	33.8	12.46
Onsite Equipment	1.39	16.95	7.40	0.03	0.56	0.51
Total	84.73	248.80	246.00	1.30	63.23	20.80

Planning Area 1 Peak Operation Emissions (without Mitigation 2020)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	78.66	2.85E-03	0.31	2.00E-05	1.11E-03	1.11E-03
Energy Source	0.69	6.24	5.24	0.04	0.48	0.48
Mobile (Passenger Cars)	10.56	12.46	179.45	0.67	60.37	16.23
Mobile (Trucks)	30.84	438.84	300.49	1.86	70.36	25.31
Onsite Equipment	1.85	22.60	9.87	0.04	0.75	0.68
Total	122.60	480.14	495.36	2.61	131.96	42.70

PHASE 1B WINTER 2020 (UNMITIGATED)

Light Industrial Peak Operation Emissions (without Mitigation 2020)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	16.22	5.90E-04	0.06	--	2.30E-04	2.30E-04
Energy Source	0.56	5.09	4.28	0.03	0.39	0.39
Mobile (Passenger Cars)	5.04	6.89	78.96	0.32	31.59	8.49
Mobile (Trucks)	15.43	223.37	158.43	0.92	36.57	12.85
Onsite Equipment	0.46	5.65	2.47	0.01	0.19	0.17
Total	37.71	241.00	244.20	1.28	68.74	21.90

High-Cube Warehouse Peak Operation Emissions (without Mitigation 2020)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	62.44	2.26E-03	0.25	2.00E-05	8.80E-04	8.80E-04
Energy Source	0.13	1.15	0.96	6.89E-03	0.09	0.09
Mobile (Passenger Cars)	4.71	6.3	72.27	0.29	28.78	7.74
Mobile (Trucks)	15.96	234.22	163.1	0.94	33.81	12.46
Onsite Equipment	1.39	16.95	7.40	0.03	0.56	0.51
Total	84.63	258.62	243.98	1.27	63.24	20.80

Planning Area 1 Peak Operation Emissions (without Mitigation 2020)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	78.66	2.85E-03	0.31	2.00E-05	1.11E-03	1.11E-03
Energy Source	0.69	6.24	5.24	0.04	0.48	0.48
Mobile (Passenger Cars)	9.75	13.19	151.23	0.61	60.37	16.23
Mobile (Trucks)	31.39	457.59	321.53	1.86	70.38	25.31
Onsite Equipment	1.85	22.60	9.87	0.04	0.75	0.68
Total	122.34	499.62	488.18	2.55	131.98	42.70

PHASE 1B SUMMER 2020 (MITIGATED)

Light Industrial Peak Operation Emissions (with Mitigation 2020)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	16.22	5.90E-04	0.06	--	2.30E-04	2.30E-04
Energy Source	0.55	4.98	4.18	0.03	0.38	0.38
Mobile (Passenger Cars)	5.46	6.51	93.77	0.35	31.59	8.49
Mobile (Trucks)	15.17	214.09	148.78	0.92	36.56	12.85
Onsite Equipment	0.46	5.65	2.47	0.01	0.19	0.17
Total	37.86	231.23	249.26	1.31	68.72	21.89

High-Cube Warehouse Peak Operation Emissions (with Mitigation 2020)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	62.44	2.26E-03	0.25	2.00E-05	8.80E-04	8.80E-04
Energy Source	0.12	1.09	0.92	6.55E-03	0.08	0.08
Mobile (Passenger Cars)	5.11	6.02	86.68	0.32	29.15	7.84
Mobile (Trucks)	15.67	224.75	151.71	0.94	33.8	12.46
Onsite Equipment	1.39	16.95	7.40	0.03	0.56	0.51
Total	84.73	248.81	246.96	1.30	63.59	20.89

Planning Area 1 Peak Operation Emissions (with Mitigation 2020)

Summer Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	78.66	2.85E-03	0.31	2.00E-05	1.11E-03	1.11E-03
Energy Source	0.67	6.07	5.10	0.04	0.46	0.46
Mobile (Passenger Cars)	10.57	12.53	180.45	0.67	60.74	16.33
Mobile (Trucks)	30.84	438.84	300.49	1.86	70.36	25.31
Onsite Equipment	1.85	22.60	9.87	0.04	0.75	0.68
Total	122.59	480.04	496.22	2.61	132.31	42.78

PHASE 1B WINTER 2020 (MITIGATED)

Light Industrial Peak Operation Emissions (with Mitigation 2020)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	16.22	5.90E-04	0.06	--	2.30E-04	2.30E-04
Energy Source	0.55	4.98	4.18	0.03	0.38	0.38
Mobile (Passenger Cars)	5.04	6.89	78.96	0.32	31.59	8.49
Mobile (Trucks)	15.43	223.37	158.43	0.92	36.57	12.85
Onsite Equipment	0.46	5.65	2.47	0.01	0.19	0.17
Total	37.70	240.89	244.10	1.28	68.73	21.89

High-Cube Warehouse Peak Operation Emissions (with Mitigation 2020)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	62.44	2.26E-03	0.25	2.00E-05	8.80E-04	8.80E-04
Energy Source	0.12	1.09	0.92	6.55E-03	0.08	0.08
Mobile (Passenger Cars)	4.72	6.37	73.07	0.29	29.15	7.84
Mobile (Trucks)	15.96	234.22	163.11	0.94	33.81	12.46
Onsite Equipment	1.39	16.95	7.40	0.03	0.56	0.51
Total	84.63	258.63	244.75	1.27	63.60	20.89

Planning Area 1 Peak Operation Emissions (with Mitigation 2020)

Winter Scenario	Emissions (pounds per day)					
	VOC	Nox	CO	Sox	PM10	PM2.5
Area Source	78.66	2.85E-03	0.31	2.00E-05	1.11E-03	1.11E-03
Energy Source	0.67	6.07	5.10	0.04	0.46	0.46
Mobile (Passenger Cars)	9.76	13.26	152.03	0.61	60.74	16.33
Mobile (Trucks)	31.39	457.59	321.54	1.86	70.38	25.31
Onsite Equipment	1.85	22.60	9.87	0.04	0.75	0.68
Total	122.33	499.52	488.85	2.55	132.33	42.78

CALEEMOD EMISSIONS MODEL OUTPUTS
OPERATIONS PLANNING AREAS 2-4 OPERATING YEAR 2020

Planning Area 2, 3, 4 Operations Only
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	280.00	1000sqft	6.43	280,000.00	0
Parking Lot	2,800.00	Space	25.20	1,120,000.00	0
Hotel	600.00	Room	20.00	345,000.00	0
Apartments Low Rise	800.00	Dwelling Unit	50.00	800,000.00	2288
Regional Shopping Center	505.00	1000sqft	11.59	505,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - assumed 2 spaces per dwelling unit/hotel room

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR adjusted to be consistant with the Daily TR within the TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - no woodstoves. all natural gas fireplaces

Area Coating -

Energy Use - T-24 Electricity/Nat Gas Energy were adjusted by 21.8% and 16.8% respectively (non res) and 23.3% and 3.8% respectively (multi-fam) , to reflect 2013 Title 24 requirements. Impact Analysis CA's 2013 Building Energy Efficiency Stds

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment.

Solid Waste -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	1.00
tblEnergyUse	T24E	636.58	488.26
tblEnergyUse	T24E	7.91	6.19
tblEnergyUse	T24E	3.75	2.93
tblEnergyUse	T24E	5.60	4.38
tblEnergyUse	T24NG	11,224.20	10,797.68
tblEnergyUse	T24NG	58.04	48.29
tblEnergyUse	T24NG	3.07	2.55
tblEnergyUse	T24NG	2.02	1.68

tblFireplaces	NumberGas	680.00	800.00
tblFireplaces	NumberNoFireplace	80.00	0.00
tblFireplaces	NumberWood	40.00	0.00
tblLandUse	LandUseSquareFeet	871,200.00	345,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	11.42	11.03
tblVehicleTrips	WD_TR	42.94	42.70
tblWater	IndoorWaterUseRate	52,123,220.50	44,384,000.00
tblWater	IndoorWaterUseRate	15,220,062.00	32,850,000.00
tblWater	IndoorWaterUseRate	49,765,449.44	19,146,550.00
tblWater	IndoorWaterUseRate	37,406,623.35	34,530,349.00
tblWater	OutdoorWaterUseRate	32,860,291.18	0.00
tblWater	OutdoorWaterUseRate	1,691,118.00	0.00
tblWater	OutdoorWaterUseRate	30,501,404.49	0.00
tblWater	OutdoorWaterUseRate	22,926,640.12	0.00
tblWoodstoves	NumberCatalytic	40.00	0.00
tblWoodstoves	NumberNoncatalytic	40.00	0.00

2.0 Emissions Summary

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	73.1023	0.7699	66.7351	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4430	0.3106	17,166.5205
Energy	0.9067	8.0712	5.6667	0.0495		0.6264	0.6264		0.6264	0.6264		9,891.1181	9,891.1181	0.1896	0.1813	9,951.3138
Mobile	111.1636	278.3993	1,131.0011	3.1488	204.3093	4.4113	208.7206	54.5646	4.0667	58.6312		243,880.0871	243,880.0871	7.9280		244,046.5748
Total	185.1725	287.2404	1,203.4029	3.2018	204.3093	6.4764	210.7857	54.5646	6.1204	60.6850	0.0000	270,832.1395	270,832.1395	8.5606	0.4919	271,164.4091

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	73.1023	0.7699	66.7351	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4430	0.3106	17,166.5205
Energy	0.8670	7.7174	5.4147	0.0473		0.5990	0.5990		0.5990	0.5990		9,458.2319	9,458.2319	0.1813	0.1734	9,515.7931
Mobile	103.1979	217.5794	912.7450	2.3181	148.4645	3.2941	151.7586	39.6502	3.0371	42.6873		179,540.2619	179,540.2619	5.9968		179,666.1953
Total	177.1671	226.0667	984.8949	2.3689	148.4645	5.3317	153.7963	39.6502	5.0634	44.7136	0.0000	206,059.4280	206,059.4280	6.6212	0.4840	206,348.5089

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.32	21.30	18.16	26.01	27.33	17.67	27.04	27.33	17.27	26.32	0.00	23.92	23.92	22.66	1.61	23.90

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

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 Demolition - 2015

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	0.0000	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 Construction Off-Site

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

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	103.1979	217.5794	912.7450	2.3181	148.4645	3.2941	151.7586	39.6502	3.0371	42.6873		179,540.2619	179,540.2619	5.9968		179,666.1953
Unmitigated	111.1636	278.3993	1,131.0011	3.1488	204.3093	4.4113	208.7206	54.5646	4.0667	58.6312		243,880.0871	243,880.0871	7.9280		244,046.5748

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	5,320.00	5,728.00	4856.00	18,151,911	13,190,369
Hotel	4,902.00	4,914.00	3570.00	11,247,047	8,172,842
Office Park	3,088.40	459.20	212.80	7,777,654	5,651,753
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	21,563.50	25,234.85	12746.20	45,048,502	32,735,196
Total	34,873.90	36,336.05	21,385.00	82,225,114	59,750,160

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.468914	0.065172	0.173428	0.156844	0.056897	0.009079	0.016419	0.042157	0.001108	0.001337	0.005012	0.000672	0.002962

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.8670	7.7174	5.4147	0.0473		0.5990	0.5990		0.5990	0.5990		9,458.2319	9,458.2319	0.1813	0.1734	9,515.7931
NaturalGas Unmitigated	0.9067	8.0712	5.6667	0.0495		0.6264	0.6264		0.6264	0.6264		9,891.1181	9,891.1181	0.1896	0.1813	9,951.3138

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					
Office Park	1956.16	0.0211	0.1918	0.1611	1.1500e-003		0.0146	0.0146		0.0146	0.0146		230.1370	230.1370	4.4100e-003	4.2200e-003	231.5376
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2739.45	0.0295	0.2686	0.2256	1.6100e-003		0.0204	0.0204		0.0204	0.0204		322.2885	322.2885	6.1800e-003	5.9100e-003	324.2499
Apartments Low Rise	29141.2	0.3143	2.6856	1.1428	0.0171		0.2171	0.2171		0.2171	0.2171		3,428.3784	3,428.3784	0.0657	0.0629	3,449.2429
Hotel	50237.7	0.5418	4.9253	4.1372	0.0296		0.3743	0.3743		0.3743	0.3743		5,910.3143	5,910.3143	0.1133	0.1084	5,946.2835
Total		0.9067	8.0712	5.6667	0.0495		0.6264	0.6264		0.6264	0.6264		9,891.1181	9,891.1181	0.1896	0.1813	9,951.3138

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Office Park	1.85836	0.0200	0.1822	0.1530	1.0900e-003		0.0139	0.0139		0.0139	0.0139		218.6301	218.6301	4.1900e-003	4.0100e-003	219.9607
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.62323	0.0283	0.2572	0.2160	1.5400e-003		0.0196	0.0196		0.0196	0.0196		308.6156	308.6156	5.9200e-003	5.6600e-003	310.4938
Apartments Low Rise	27.9579	0.3015	2.5765	1.0964	0.0165		0.2083	0.2083		0.2083	0.2083		3,289.1658	3,289.1658	0.0630	0.0603	3,309.1831
Hotel	47.9555	0.5172	4.7015	3.9493	0.0282		0.3573	0.3573		0.3573	0.3573		5,641.8203	5,641.8203	0.1081	0.1034	5,676.1555
Total		0.8670	7.7174	5.4147	0.0473		0.5990	0.5990		0.5990	0.5990		9,458.2319	9,458.2319	0.1813	0.1734	9,515.7931

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	73.1023	0.7699	66.7351	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4430	0.3106	17,166.5205
Unmitigated	73.1023	0.7699	66.7351	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4430	0.3106	17,166.5205

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	9.1024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	60.3900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.5529	7.0000e-005	0.0847	0.0000		1.0729	1.0729		1.0617	1.0617	0.0000	16,941.1765	16,941.1765	0.3247	0.3106	17,044.2777
Landscaping	2.0569	0.7699	66.6504	3.5200e-003		0.3657	0.3657		0.3657	0.3657		119.7578	119.7578	0.1183		122.2429
Total	73.1023	0.7699	66.7352	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4431	0.3106	17,166.5205

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	9.1024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	60.3900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.5529	7.0000e-005	0.0847	0.0000		1.0729	1.0729		1.0617	1.0617	0.0000	16,941.1765	16,941.1765	0.3247	0.3106	17,044.2777
Landscaping	2.0569	0.7699	66.6504	3.5200e-003		0.3657	0.3657		0.3657	0.3657		119.7578	119.7578	0.1183		122.2429
Total	73.1023	0.7699	66.7352	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4431	0.3106	17,166.5205

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 Vegetation

Planning Area 2, 3, 4 Operations Only
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	280.00	1000sqft	6.43	280,000.00	0
Parking Lot	2,800.00	Space	25.20	1,120,000.00	0
Hotel	600.00	Room	20.00	345,000.00	0
Apartments Low Rise	800.00	Dwelling Unit	50.00	800,000.00	2288
Regional Shopping Center	505.00	1000sqft	11.59	505,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	466.91	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Source: CPUC GHG Calculator version 3c, worksheet tab "CO2 Allocations," cells AH/AQ 35-44.

Land Use - assumed 2 spaces per dwelling unit/hotel room

Construction Phase - construction emissions modeled seperately

Off-road Equipment - construction emissions modeled seperately

Vehicle Trips - TR adjusted to be consistant with the Daily TR within the TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - no woodstoves. all natural gas fireplaces

Area Coating -

Energy Use - T-24 Electricity/Nat Gas Energy were adjusted by 21.8% and 16.8% respectively (non res) and 23.3% and 3.8% respectively (multi-fam) , to reflect 2013 Title 24 requirements. Impact Analysis CA's 2013 Building Energy Efficiency Stds

Water And Wastewater - Based upon Table 1-3 "Meredith International Centre Water Demand" in the WSA - Meredith International Centre Specific Plan Amendment.

Solid Waste -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	1.00
tblEnergyUse	T24E	636.58	488.26
tblEnergyUse	T24E	7.91	6.19
tblEnergyUse	T24E	3.75	2.93
tblEnergyUse	T24E	5.60	4.38
tblEnergyUse	T24NG	11,224.20	10,797.68
tblEnergyUse	T24NG	58.04	48.29
tblEnergyUse	T24NG	3.07	2.55
tblEnergyUse	T24NG	2.02	1.68

tblFireplaces	NumberGas	680.00	800.00
tblFireplaces	NumberNoFireplace	80.00	0.00
tblFireplaces	NumberWood	40.00	0.00
tblLandUse	LandUseSquareFeet	871,200.00	345,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	466.91
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	WD_TR	6.59	6.65
tblVehicleTrips	WD_TR	11.42	11.03
tblVehicleTrips	WD_TR	42.94	42.70
tblWater	IndoorWaterUseRate	52,123,220.50	44,384,000.00
tblWater	IndoorWaterUseRate	15,220,062.00	32,850,000.00
tblWater	IndoorWaterUseRate	49,765,449.44	19,146,550.00
tblWater	IndoorWaterUseRate	37,406,623.35	34,530,349.00
tblWater	OutdoorWaterUseRate	32,860,291.18	0.00
tblWater	OutdoorWaterUseRate	1,691,118.00	0.00
tblWater	OutdoorWaterUseRate	30,501,404.49	0.00
tblWater	OutdoorWaterUseRate	22,926,640.12	0.00
tblWoodstoves	NumberCatalytic	40.00	0.00
tblWoodstoves	NumberNoncatalytic	40.00	0.00

2.0 Emissions Summary

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	73.1023	0.7699	66.7351	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4430	0.3106	17,166.5205
Energy	0.9067	8.0712	5.6667	0.0495		0.6264	0.6264		0.6264	0.6264		9,891.1181	9,891.1181	0.1896	0.1813	9,951.3138
Mobile	107.6523	289.8571	1,084.2540	2.9342	204.3093	4.4310	208.7403	54.5646	4.0847	58.6493		228,363.3773	228,363.3773	7.9427		228,530.1739
Total	181.6613	298.6983	1,156.6559	2.9871	204.3093	6.4960	210.8053	54.5646	6.1385	60.7031	0.0000	255,315.4297	255,315.4297	8.5753	0.4919	255,648.0082

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	73.1023	0.7699	66.7351	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4430	0.3106	17,166.5205
Energy	0.8670	7.7174	5.4147	0.0473		0.5990	0.5990		0.5990	0.5990		9,458.2319	9,458.2319	0.1813	0.1734	9,515.7931
Mobile	100.1202	225.8854	901.0151	2.1613	148.4645	3.3138	151.7783	39.6502	3.0551	42.7053		168,156.4565	168,156.4565	6.0115		168,282.6987
Total	174.0894	234.3728	973.1649	2.2121	148.4645	5.3514	153.8159	39.6502	5.0815	44.7317	0.0000	194,675.6226	194,675.6226	6.6359	0.4840	194,965.0123

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.17	21.54	15.86	25.95	27.33	17.62	27.03	27.33	17.22	26.31	0.00	23.75	23.75	22.62	1.61	23.74

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/1/2015	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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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	0.0000	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

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 Demolition - 2015

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	0.0000	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 Construction Off-Site

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

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	100.1202	225.8854	901.0151	2.1613	148.4645	3.3138	151.7783	39.6502	3.0551	42.7053		168,156.4565	168,156.4565	6.0115		168,282.6987
Unmitigated	107.6523	289.8571	1,084.2540	2.9342	204.3093	4.4310	208.7403	54.5646	4.0847	58.6493		228,363.3773	228,363.3773	7.9427		228,530.1739

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	5,320.00	5,728.00	4856.00	18,151,911	13,190,369
Hotel	4,902.00	4,914.00	3570.00	11,247,047	8,172,842
Office Park	3,088.40	459.20	212.80	7,777,654	5,651,753
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	21,563.50	25,234.85	12746.20	45,048,502	32,735,196
Total	34,873.90	36,336.05	21,385.00	82,225,114	59,750,160

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.468914	0.065172	0.173428	0.156844	0.056897	0.009079	0.016419	0.042157	0.001108	0.001337	0.005012	0.000672	0.002962

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.8670	7.7174	5.4147	0.0473		0.5990	0.5990		0.5990	0.5990		9,458.2319	9,458.2319	0.1813	0.1734	9,515.7931
NaturalGas Unmitigated	0.9067	8.0712	5.6667	0.0495		0.6264	0.6264		0.6264	0.6264		9,891.1181	9,891.1181	0.1896	0.1813	9,951.3138

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					
Office Park	1956.16	0.0211	0.1918	0.1611	1.1500e-003		0.0146	0.0146		0.0146	0.0146		230.1370	230.1370	4.4100e-003	4.2200e-003	231.5376
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2739.45	0.0295	0.2686	0.2256	1.6100e-003		0.0204	0.0204		0.0204	0.0204		322.2885	322.2885	6.1800e-003	5.9100e-003	324.2499
Apartments Low Rise	29141.2	0.3143	2.6856	1.1428	0.0171		0.2171	0.2171		0.2171	0.2171		3,428.3784	3,428.3784	0.0657	0.0629	3,449.2429
Hotel	50237.7	0.5418	4.9253	4.1372	0.0296		0.3743	0.3743		0.3743	0.3743		5,910.3143	5,910.3143	0.1133	0.1084	5,946.2835
Total		0.9067	8.0712	5.6667	0.0495		0.6264	0.6264		0.6264	0.6264		9,891.1181	9,891.1181	0.1896	0.1813	9,951.3138

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Office Park	1.85836	0.0200	0.1822	0.1530	1.0900e-003		0.0139	0.0139		0.0139	0.0139		218.6301	218.6301	4.1900e-003	4.0100e-003	219.9607
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.62323	0.0283	0.2572	0.2160	1.5400e-003		0.0196	0.0196		0.0196	0.0196		308.6156	308.6156	5.9200e-003	5.6600e-003	310.4938
Apartments Low Rise	27.9579	0.3015	2.5765	1.0964	0.0165		0.2083	0.2083		0.2083	0.2083		3,289.1658	3,289.1658	0.0630	0.0603	3,309.1831
Hotel	47.9555	0.5172	4.7015	3.9493	0.0282		0.3573	0.3573		0.3573	0.3573		5,641.8203	5,641.8203	0.1081	0.1034	5,676.1555
Total		0.8670	7.7174	5.4147	0.0473		0.5990	0.5990		0.5990	0.5990		9,458.2319	9,458.2319	0.1813	0.1734	9,515.7931

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	73.1023	0.7699	66.7351	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4430	0.3106	17,166.5205
Unmitigated	73.1023	0.7699	66.7351	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4430	0.3106	17,166.5205

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	9.1024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	60.3900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.5529	7.0000e-005	0.0847	0.0000		1.0729	1.0729		1.0617	1.0617	0.0000	16,941.1765	16,941.1765	0.3247	0.3106	17,044.2777
Landscaping	2.0569	0.7699	66.6504	3.5200e-003		0.3657	0.3657		0.3657	0.3657		119.7578	119.7578	0.1183		122.2429
Total	73.1023	0.7699	66.7352	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4431	0.3106	17,166.5205

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	9.1024					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	60.3900					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.5529	7.0000e-005	0.0847	0.0000		1.0729	1.0729		1.0617	1.0617	0.0000	16,941.1765	16,941.1765	0.3247	0.3106	17,044.2777
Landscaping	2.0569	0.7699	66.6504	3.5200e-003		0.3657	0.3657		0.3657	0.3657		119.7578	119.7578	0.1183		122.2429
Total	73.1023	0.7699	66.7352	3.5200e-003		1.4386	1.4386		1.4273	1.4273	0.0000	17,060.9342	17,060.9342	0.4431	0.3106	17,166.5205

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 Vegetation

This page intentionally left blank

APPENDIX 3.2:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

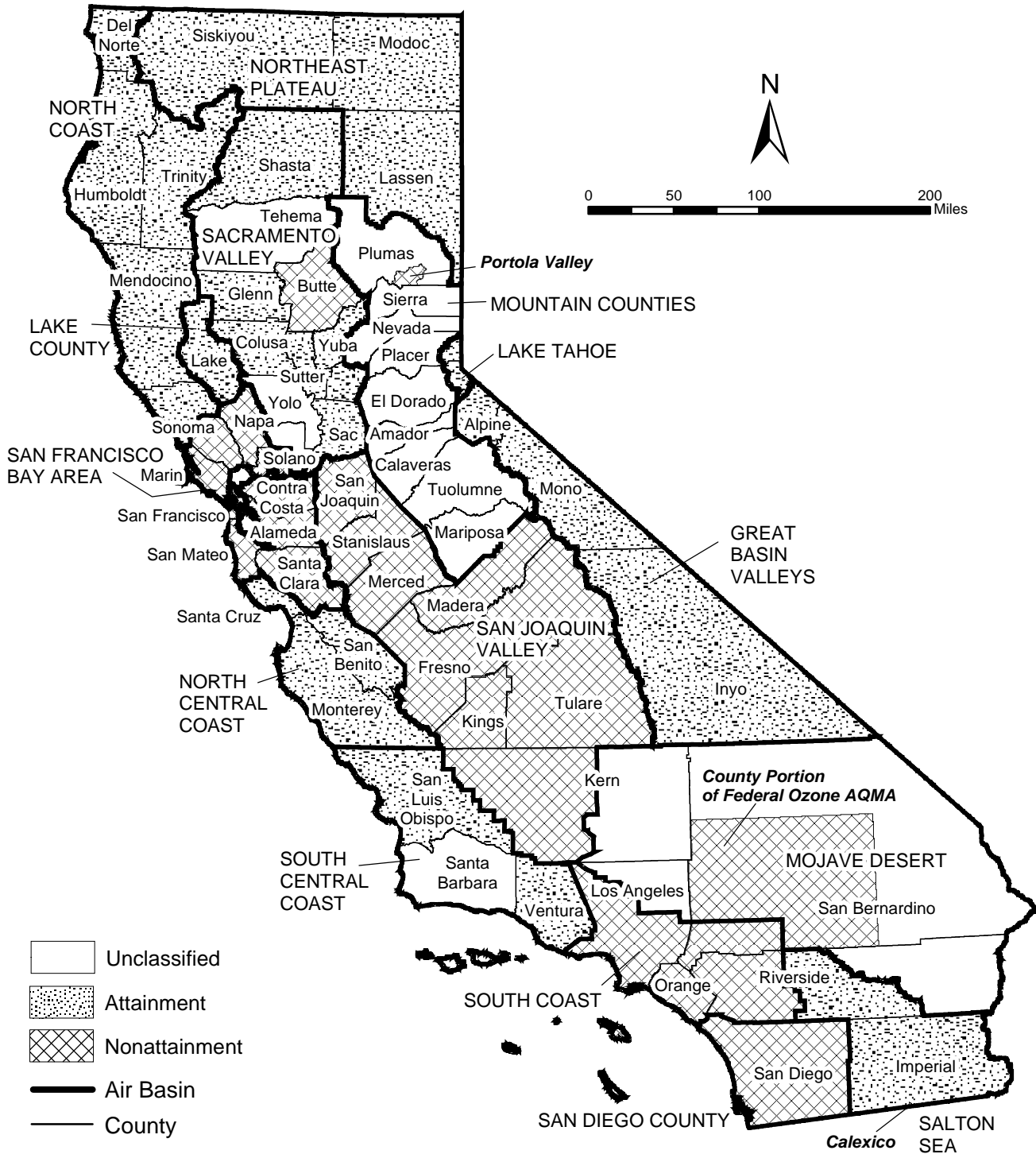
2013 Area Designations for State Ambient Air Quality Standards OZONE



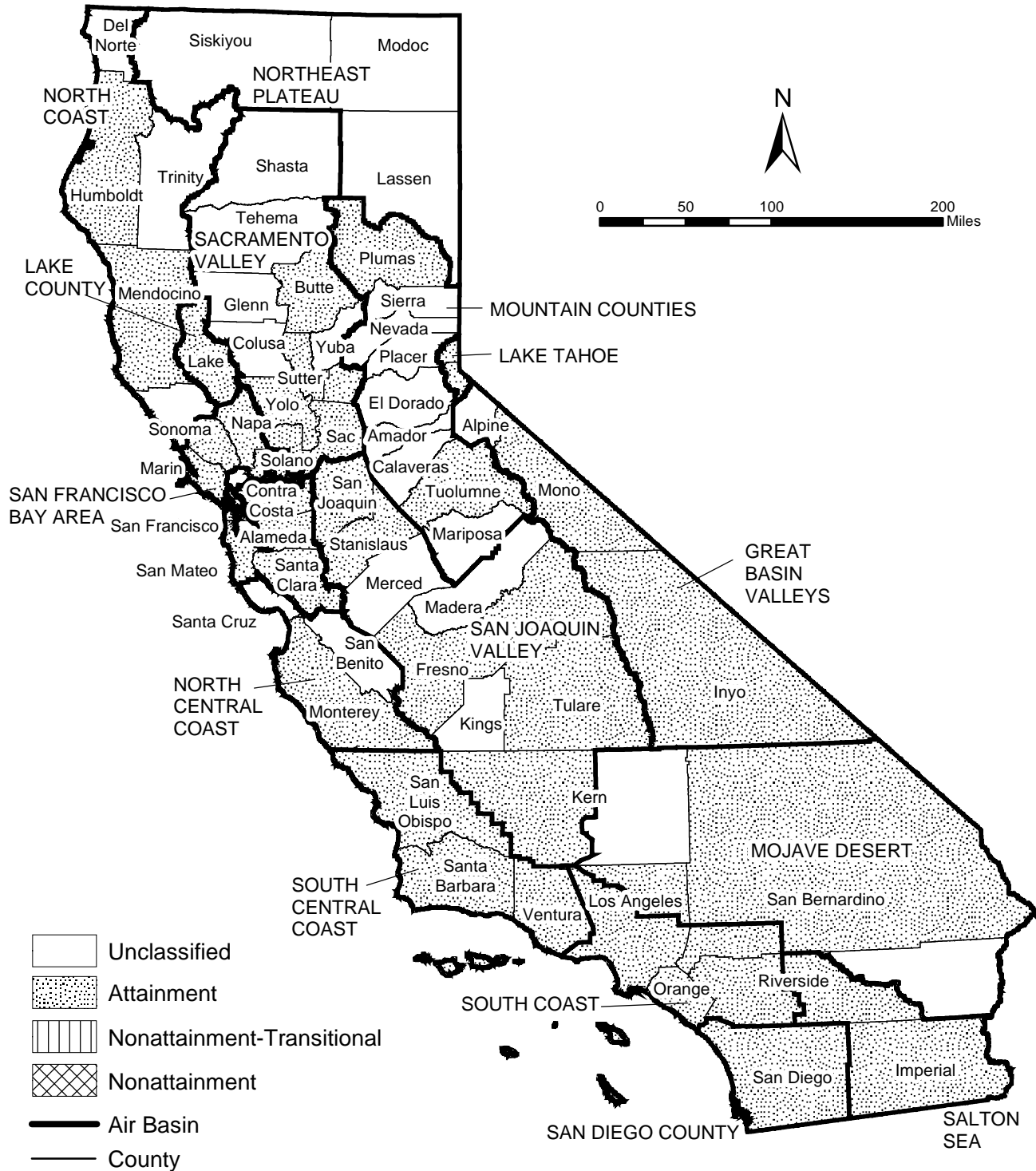
2013 Area Designations for State Ambient Air Quality Standards PM10



2013 Area Designations for State Ambient Air Quality Standards PM_{2.5}



2013 Area Designations for State Ambient Air Quality Standards CARBON MONOXIDE



2013 Area Designations for State Ambient Air Quality Standards NITROGEN DIOXIDE



2013 Area Designations for State Ambient Air Quality Standards SULFUR DIOXIDE



2013 Area Designations for State Ambient Air Quality Standards LEAD



Area Designations for National Ambient Air Quality Standards 8-HOUR OZONE



Source Date:
June 2013
Air Quality Planning Branch, AQPSD

Area Designations for National Ambient Air Quality Standards PM10

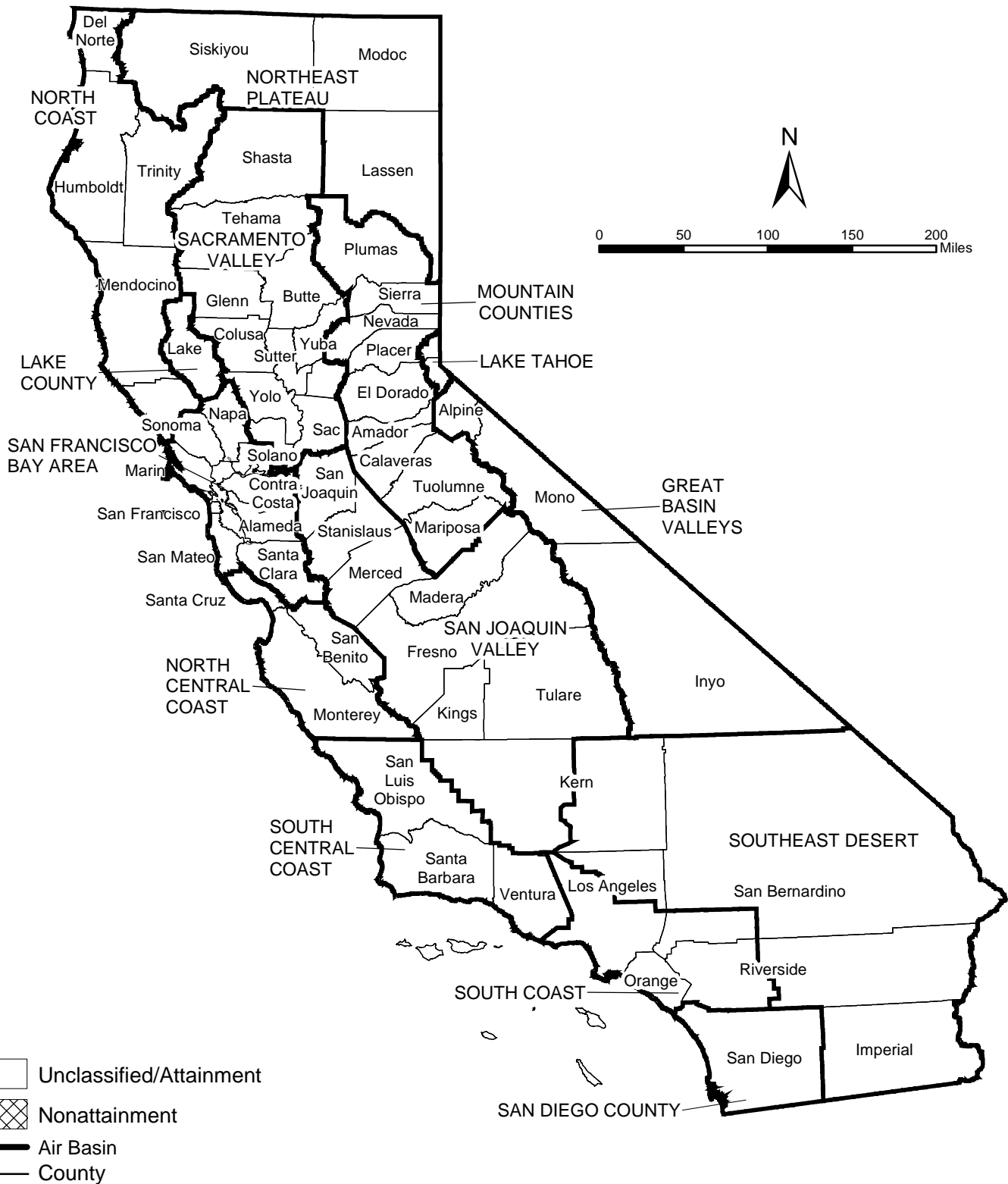


Source Date:
September 2013
Air Quality Planning Branch, AQPSD

Area Designations for National Ambient Air Quality Standards PM2.5

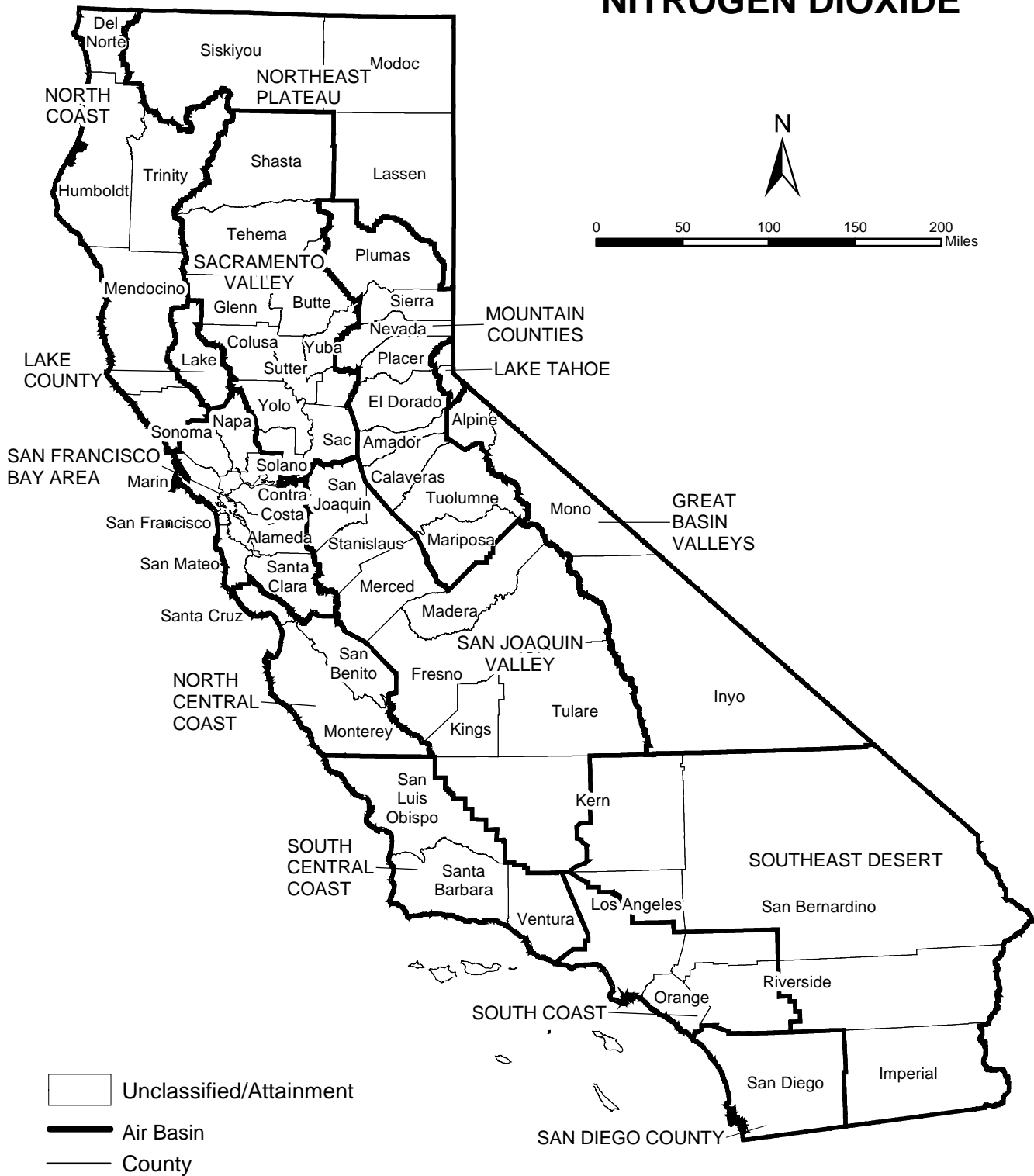


Area Designations for National Ambient Air Quality Standards CARBON MONOXIDE



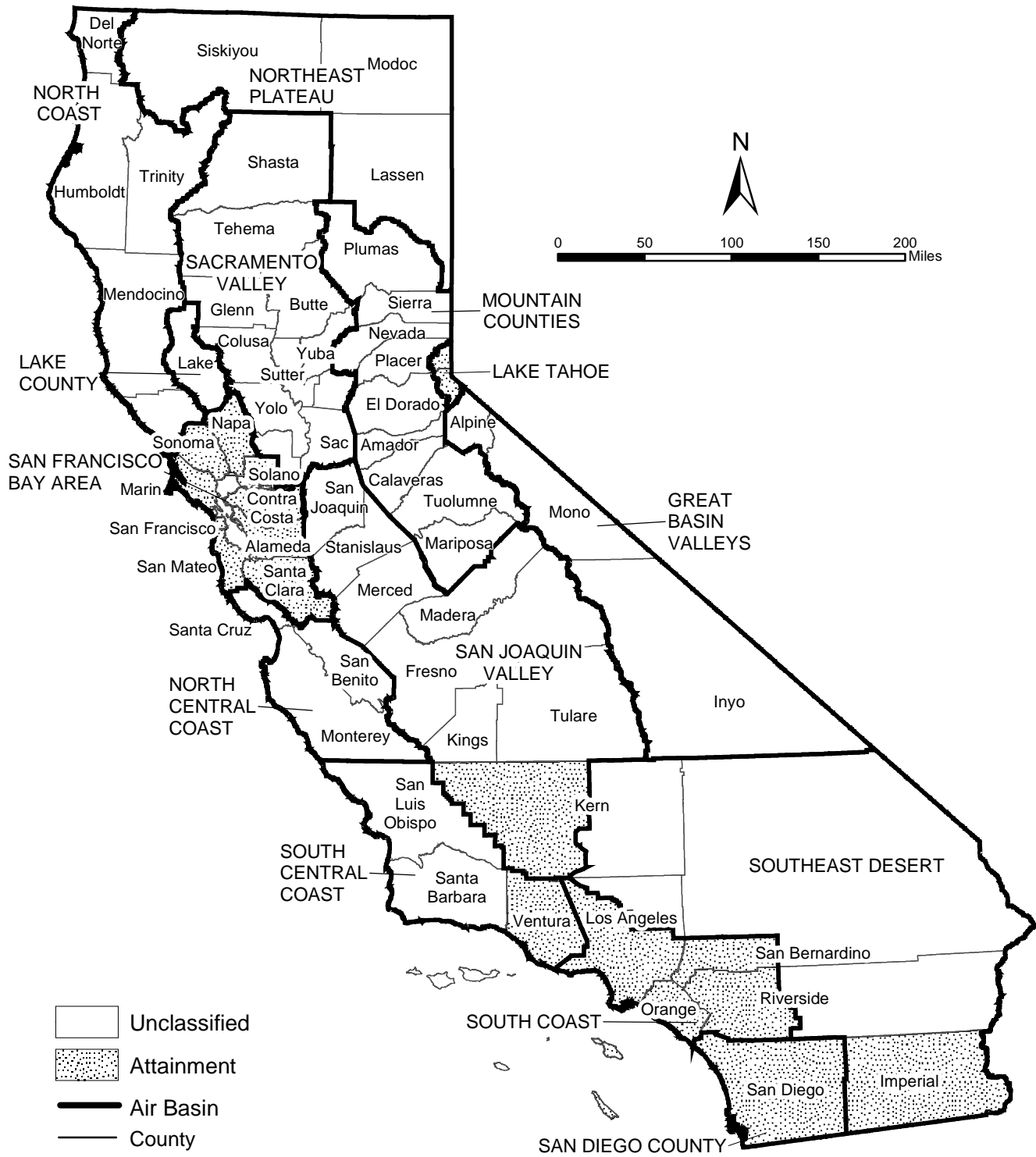
Source Date:
June 2013
Air Quality Planning Branch, AQPSD

Area Designations for National Ambient Air Quality Standards NITROGEN DIOXIDE



Source Date:
June 2013
Air Quality Planning Branch, AQPSD

Area Designations for National Ambient Air Quality Standards SULFUR DIOXIDE



Area Designations for National Ambient Air Quality Standards LEAD



Source Date:
June 2013
Air Quality Planning Branch, AQPSD

This page intentionally left blank

APPENDIX 3.3

SCREEN3 INPUTS/OUTPUTS

SCREEN3 INPUTS/OUTPUTS

CONSTRUCTION

Grading Unmitigated

NO₂¹

Downwind Distance	NO ₂ /NO _x Ratio	SCREEN3 OP	NO ₂ Concentration (ug/m3)	NO ₂ Concentration (ppm)
20	0.05	448.400	23.77	0.0127
50	0.06	488.500	28.82	0.0153
70	0.06	511.600	32.74	0.0174
100	0.07	543.900	40.25	0.0214
200	0.11	635.900	72.49	0.0386
500	0.26	308.800	79.67	0.0424
1000	0.47	145.500	67.95	0.0362
2000	0.75	64.790	48.59	0.0259
3000	0.90	39.690	35.72	0.0190
4000	0.98	28.110	27.49	0.0146
5000	1.00	21.610	21.61	0.0115

CO Pounds Per day Grams Per day Grams Per Second Meters squared (area)

352.40 159845.95 5.55020664 105,218.267

Screen 3 Output
1.56E+07

FINAL Concentration
8.21E+02

0.714 ppm (1-hour)
0.517 ppm (8-hour)

PM₁₀ Pounds Per day Grams Per day Grams Per Second Meters squared (area)

85.08 38591.639 1.3400 105,218.267

Screen 3 Output
2.51E+07

FINAL Concentration
3.19E+02

PM10 Calculation

$$C_x = 0.9403 C_o e^{-0.0462 x}$$

$$C_o^2 = 4.79E+01$$

$$e = 0.3150575$$

$$x \text{ (meters)} = 25$$

$$C_x = 14.18$$

Total PM₁₀: 1.42E+01

PM_{2.5} Pounds Per day Grams Per day Grams Per Second Meters squared (area)

51.82 23505.157 0.8162 105,218.267

Screen 3 Output
2.51E+07

FINAL Concentration
1.94E+02

PM2.5 Calculation

$$C_x = 0.9403 C_o e^{-0.0462 x}$$

$$C_o^2 = 2.92E+01$$

$$e = 0.3150575$$

$$x \text{ (meters)} = 25$$

$$C_x = 8.64$$

Total PM_{2.5}: 8.64E+00

¹ Per SCAQMD LST Handbook (Table 2-4) NQ to NO₂ conversion factor

² Conversion factor of 0.15 applied to convert from one-hour max to 24-hour average for area sources (<http://www.colorado.gov/airquality/permits/screen.pdf>)

Grading Mitigated

NO₂¹

Downwind Distance	NO ₂ /NO _x Ratio	SCREEN3 OP	NO ₂ Concentration (ug/m3)	NO ₂ Concentration (ppm)
20	0.05	189.500	10.04	0.0053
50	0.06	206.400	12.18	0.0065
70	0.06	216.200	13.84	0.0074
100	0.07	229.900	17.01	0.0091
200	0.11	268.700	30.63	0.0163
500	0.26	130.500	33.67	0.0179
1000	0.47	61.470	28.71	0.0153
2000	0.75	27.380	20.54	0.0109
3000	0.90	16.770	15.09	0.0080
4000	0.98	11.880	11.62	0.0062
5000	1.00	9.132	9.13	0.0049

CO Pounds Per day Grams Per day Grams Per Second Meters squared (area)

243.62 110504.17 3.83695046 105,218.267

Screen 3 Output
1.56E+07

FINAL Concentration
5.68E+02

0.494 ppm (1-hour)
0.358 ppm (8-hour)

PM₁₀ Pounds Per day Grams Per day Grams Per Second Meters squared (area)

33.17 15045.659 0.5224 105,218.267

Screen 3 Output
2.51E+07

FINAL Concentration
1.24E+02

PM10 Calculation

$$C_x = 0.9403 C_o e^{-0.0462 x}$$

C_o² 1.87E+01
e 0.3150575
x (meters) 25

C_x 5.53

Total PM₁₀: 5.53

PM_{2.5} Pounds Per day Grams Per day Grams Per Second Meters squared (area)

20.78 9425.6494 0.3273 105,218.267

Screen 3 Output
2.51E+07

FINAL Concentration
7.79E+01

PM2.5 Calculation

$$C_x = 0.9403 C_o e^{-0.0462 x}$$

C_o² 1.17E+01
e 0.3150575
x (meters) 25

C_x 3.46

Total PM_{2.5}: 3.46

¹ Per SCAQMD LST Handbook (Table 2-4) NQ to NO₂ conversion factor

² Conversion factor of 0.15 applied to convert from one-hour max to 24-hour average for area sources (<http://www.colorado.gov/airquality/permits/screen.pdf>)

01/07/15

15:57:29

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

Meredith Construction LST Analysis - CO

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = AREA
EMISSION RATE (G/(S-M**2)) = 1.00000
SOURCE HEIGHT (M) = 5.0000
LENGTH OF LARGER SIDE (M) = 324.3737
LENGTH OF SMALLER SIDE (M) = 324.3737
RECEPTOR HEIGHT (M) = 2.0000
URBAN/RURAL OPTION = URBAN

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = 0.000 M**4/S**3; MOM. FLUX = 0.000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
25.	0.1557E+08	5	1.0	1.0	10000.0	5.00	43.

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	0.1557E+08	25.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

01/07/15

15:59:52

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

Meredith Construction LST Analysis - PM10/PM2.5

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = AREA
EMISSION RATE (G/(S-M**2)) = 1.00000
SOURCE HEIGHT (M) = 1.0000
LENGTH OF LARGER SIDE (M) = 324.3737
LENGTH OF SMALLER SIDE (M) = 324.3737
RECEPTOR HEIGHT (M) = 2.0000
URBAN/RURAL OPTION = URBAN

THE NON-REGULATORY BUT CONSERVATIVE BRODE 2 MIXING HEIGHT OPTION WAS SELECTED.

THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = 0.000 M**4/S**3; MOM. FLUX = 0.000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
1.	0.2506E+08	6	1.0	1.0	10000.0	1.00	45.

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	0.2506E+08	1.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

PROCEDURE	(UG/M**3)	MAX (M)	HT (M)
-----	-----	-----	-----
SIMPLE TERRAIN	635.9	200.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

PROCEDURE	(UG/M**3)	MAX (M)	HT (M)
-----	-----	-----	-----
SIMPLE TERRAIN	268.7	200.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

SCREEN3 INPUTS/OUTPUTS

OPERATIONS

AVERAGE EMISSION FACTOR (CO)
SCAQMD 2020

Speed	LDA
0	6.95849
5	1.391698

Emission Rates - CO

Passenger Car Emission Rates							
Source	Trips Per Day	VMT ^a (miles/day)	PC Emission Rate ^b (grams/mile)	PC Rate ^b (grams/idle-hour)	PC Emissions ^c (grams/day)	PC Emissions (lbs/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	158			6.9585	275.06	0.61	3.184E-03
On-Site Idling Building 2A	730			6.9585	1269.84	2.80	1.470E-02
On-Site Idling Building 2B	63			6.9585	108.88	0.24	1.260E-03
On-Site Idling Building 3	163			6.9585	283.08	0.62	3.276E-03
On-Site Idling Building 4	147			6.9585	255.00	0.56	2.951E-03
On-Site Idling Building 5	176			6.9585	305.43	0.67	3.535E-03
On-Site Idling Building 6 (west)	419			6.9585	729.18	1.61	8.440E-03
On-Site Idling Building 6 (east)	419			6.9585	729.18	1.61	8.440E-03
On-Site Idling Building 7 (west)	510			6.9585	887.34	1.96	1.027E-02
On-Site Idling Building 7 (east)	510			6.9585	887.34	1.96	1.027E-02
On-Site Travel Building 1-7	6588	4403.89	1.3917		6128.88	13.51	7.094E-02

AVERAGE EMISSION FACTOR (NO2)
SCAQMD 2020

Speed	LDA
0	0.612034
5	0.122407

Emission Rates - NO2

Passenger Car Emission Rates							
Source	Trips Per Day	VMT ^a (miles/day)	PC Emission Rate ^b (grams/mile)	PC Rate ^b (grams/idle-hour)	PC Emissions ^c (grams/day)	PC Emissions (lbs/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	158			0.6120	24.19	0.05	2.800E-04
On-Site Idling Building 2A	730			0.6120	111.69	0.25	1.293E-03
On-Site Idling Building 2B	63			0.6120	9.58	0.02	1.108E-04
On-Site Idling Building 3	163			0.6120	24.90	0.05	2.882E-04
On-Site Idling Building 4	147			0.6120	22.43	0.05	2.596E-04
On-Site Idling Building 5	176			0.6120	26.86	0.06	3.109E-04
On-Site Idling Building 6 (west)	419			0.6120	64.14	0.14	7.423E-04
On-Site Idling Building 6 (east)	419			0.6120	64.14	0.14	7.423E-04
On-Site Idling Building 7 (west)	510			0.6120	78.05	0.17	9.033E-04
On-Site Idling Building 7 (east)	510			0.6120	78.05	0.17	9.033E-04
On-Site Travel Building 1-7	6588	4403.89	0.1224		539.07	1.19	6.239E-03

AVERAGE EMISSION FACTOR (PM 10)
SCAQMD 2020

Speed	LDA
0	0.05093
5	0.010186

Emission Rates - PM 10

Passenger Car Emission Rates							
Source	Trips Per Day	VMT ^a (miles/day)	PC Emission Rate ^b (grams/mile)	PC Rate ^b (grams/idle-hour)	PC Emissions ^c (grams/day)	PC Emissions (lbs/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	158			0.0509	2.01	0.00	2.330E-05
On-Site Idling Building 2A	730			0.0509	9.29	0.02	1.076E-04
On-Site Idling Building 2B	63			0.0509	0.80	0.00	9.223E-06
On-Site Idling Building 3	163			0.0509	2.07	0.00	2.398E-05
On-Site Idling Building 4	147			0.0509	1.87	0.00	2.160E-05
On-Site Idling Building 5	176			0.0509	2.24	0.00	2.587E-05
On-Site Idling Building 6 (west)	419			0.0509	5.34	0.01	6.177E-05
On-Site Idling Building 6 (east)	419			0.0509	5.34	0.01	6.177E-05
On-Site Idling Building 7 (west)	510			0.0509	6.49	0.01	7.517E-05
On-Site Idling Building 7 (east)	510			0.0509	6.49	0.01	7.517E-05
On-Site Travel Building 1-7	6588	4403.89	0.0102		44.86	0.10	5.192E-04

AVERAGE EMISSION FACTOR (PM 10)
SCAQMD 2020

Speed	LDA
0	0.048131
5	0.009626

Emission Rates - PM 10

Passenger Car Emission Rates							
Source	Trips Per Day	VMT ^a (miles/day)	PC Emission Rate ^b (grams/mile)	PC Rate ^b (grams/idle-hour)	PC Emissions ^c (grams/day)	PC Emissions (lbs/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	158			0.0481	1.90	0.00	2.202E-05
On-Site Idling Building 2A	730			0.0481	8.78	0.02	1.017E-04
On-Site Idling Building 2B	63			0.0481	0.75	0.00	8.716E-06
On-Site Idling Building 3	163			0.0481	1.96	0.00	2.266E-05
On-Site Idling Building 4	147			0.0481	1.76	0.00	2.041E-05
On-Site Idling Building 5	176			0.0481	2.11	0.00	2.445E-05
On-Site Idling Building 6 (west)	419			0.0481	5.04	0.01	5.838E-05
On-Site Idling Building 6 (east)	419			0.0481	5.04	0.01	5.838E-05
On-Site Idling Building 7 (west)	510			0.0481	6.14	0.01	7.104E-05
On-Site Idling Building 7 (east)	510			0.0481	6.14	0.01	7.104E-05
On-Site Travel Building 1-7	6588	4403.89	0.0096		42.39	0.09	2.872E-04

AVERAGE EMISSION FACTOR (CO)
SCAQMD 2020

Speed	LHD1	MHD	HHD
0	14.44285	22.64665	37.90816039
5	2.888571	2.118868	6.259670031

Speed	Weighted Average Emissions
0	28.28690
5	4.48132

Emission Rates - CO

Truck Emission Rates							
Source	Trips Per Day	VMT ^a (miles/day)	Truck Emission Rate ^b (grams/mile)	Truck Emission Rate ^b (grams/idle-hour)	Daily Truck Emissions ^c (grams/day)	Daily Truck Emissions (lbs/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	42			28.2869	295.99	0.65	3.426E-03
On-Site Idling Building 2A	193			28.2869	1366.51	3.01	1.582E-02
On-Site Idling Building 2B	17			28.2869	117.16	0.26	1.356E-03
On-Site Idling Building 3	43			28.2869	304.63	0.67	3.526E-03
On-Site Idling Building 4	39			28.2869	274.41	0.60	3.176E-03
On-Site Idling Building 5	46			28.2869	328.68	0.72	3.804E-03
On-Site Idling Building 6 (west)	111			28.2869	784.69	1.73	9.082E-03
On-Site Idling Building 6 (east)	111			28.2869	784.69	1.73	9.082E-03
On-Site Idling Building 7 (west)	135			28.2869	954.89	2.11	1.105E-02
On-Site Idling Building 7 (east)	135			28.2869	954.89	2.11	1.105E-02
On-Site Travel Building 1-7	1744	1165.81	4.4813		5224.38	11.52	6.047E-02

AVERAGE EMISSION FACTOR (NO2)
SCAQMD 2020

Speed	LHD1	MHD	HHD
0	19.67306	56.22428	47.21982867
5	3.934612	6.08839	14.22212559

Speed	Weighted Average Emissions
0	41.39862
5	9.71066

Emission Rates - NO2

Truck Emission Rates							
Source	Trips Per Day	VMT ^a (miles/day)	Truck Emission Rate ^b (grams/mile)	Truck Emission Rate ^b (grams/idle-hour)	Daily Truck Emissions ^c (grams/day)	Daily Truck Emissions (lbs/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	42			41.3986	433.20	0.96	5.014E-03
On-Site Idling Building 2A	193			41.3986	1999.92	4.41	2.315E-02
On-Site Idling Building 2B	17			41.3986	171.47	0.38	1.985E-03
On-Site Idling Building 3	43			41.3986	445.83	0.98	5.160E-03
On-Site Idling Building 4	39			41.3986	401.61	0.89	4.648E-03
On-Site Idling Building 5	46			41.3986	481.03	1.06	5.567E-03
On-Site Idling Building 6 (west)	111			41.3986	1148.42	2.53	1.329E-02
On-Site Idling Building 6 (east)	111			41.3986	1148.42	2.53	1.329E-02
On-Site Idling Building 7 (west)	135			41.3986	1397.51	3.08	1.617E-02
On-Site Idling Building 7 (east)	135			41.3986	1397.51	3.08	1.617E-02
On-Site Travel Building 1-7	1744	1165.81	9.7107		11320.82	24.96	1.310E-01

AVERAGE EMISSION FACTOR (PM 10)
SCAQMD 2020

Speed	LHD1	MHD	HHD
0	0.415981	0.133065	0.116801038
5	0.083196	0.060376	0.098723935

Speed	Weighted Average Emissions
0	0.20321
5	0.08661

Emission Rates - PM10

Truck Emission Rates							
Source	Trips Per Day	VMT ^a (miles/day)	Truck Emission Rate ^b (grams/mile)	Truck Emission Rate ^b (grams/idle-hour)	Daily Truck Emissions ^c (grams/day)	Daily Truck Emissions (lbs/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	42			0.2032	2.13	0.00	2.461E-05
On-Site Idling Building 2A	193			0.2032	9.82	0.02	1.136E-04
On-Site Idling Building 2B	17			0.2032	0.84	0.00	9.742E-06
On-Site Idling Building 3	43			0.2032	2.19	0.00	2.533E-05
On-Site Idling Building 4	39			0.2032	1.97	0.00	2.282E-05
On-Site Idling Building 5	46			0.2032	2.36	0.01	2.733E-05
On-Site Idling Building 6 (west)	111			0.2032	5.64	0.01	6.525E-05
On-Site Idling Building 6 (east)	111			0.2032	5.64	0.01	6.525E-05
On-Site Idling Building 7 (west)	135			0.2032	6.86	0.02	7.940E-05
On-Site Idling Building 7 (east)	135			0.2032	6.86	0.02	7.940E-05
On-Site Travel Building 1-7	1744	1165.81	0.0866		100.98	0.22	1.169E-03

AVERAGE EMISSION FACTOR (PM 10)
SCAQMD 2020

Speed	LHD1	MHD	HHD
0	0.382702	0.12242	0.107456955
5	0.07654	0.055546	0.09082602

Speed	Weighted Average Emissions
0	0.18696
5	0.07968

Emission Rates - PM2.5

Truck Emission Rates							
Source	Trips Per Day	VMT ^a (miles/day)	Truck Emission Rate ^b (grams/mile)	Truck Emission Rate ^b (grams/idle-hour)	Daily Truck Emissions ^c (grams/day)	Daily Truck Emissions (lbs/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	42			0.1870	1.96	0.00	2.264E-05
On-Site Idling Building 2A	193			0.1870	9.03	0.02	1.045E-04
On-Site Idling Building 2B	17			0.1870	0.77	0.00	8.963E-06
On-Site Idling Building 3	43			0.1870	2.01	0.00	2.330E-05
On-Site Idling Building 4	39			0.1870	1.81	0.00	2.099E-05
On-Site Idling Building 5	46			0.1870	2.17	0.00	2.514E-05
On-Site Idling Building 6 (west)	111			0.1870	5.19	0.01	6.003E-05
On-Site Idling Building 6 (east)	111			0.1870	5.19	0.01	6.003E-05
On-Site Idling Building 7 (west)	135			0.1870	6.31	0.01	7.305E-05
On-Site Idling Building 7 (east)	135			0.1870	6.31	0.01	7.305E-05
On-Site Travel Building 1-7	1744	1165.81	0.0797		92.90	0.20	1.075E-03

Operations Unmitigated

NO₂¹

Downwind Distance	NO ₂ /NO _x Ratio	SCREEN3 OP	NO ₂ Concentration (ug/m3)	NO ₂ Concentration (ppm)
20	0.05	14.210	0.75	0.0004
50	0.06	14.490	0.85	0.0005
70	0.06	14.680	0.94	0.0005
100	0.07	14.940	1.11	0.0006
200	0.11	15.790	1.80	0.0010
500	0.26	17.840	4.60	0.0025
1000	0.47	11.620	5.43	0.0029
2000	0.75	5.856	4.39	0.0023
3000	0.90	4.142	3.73	0.0020
4000	0.98	3.231	3.16	0.0017
5000	1.00	2.651	2.65	0.0014

CO	Pounds Per day	Grams Per day	Grams Per Second	Meters squared (area)
	263.49	119517.05	4.14989769	1,042,874.899

CalEEMod	87.83		Screen 3 Output	
Trucks	25.11		1.80E+07	
Cars	150.55			
Total	263.49		FINAL Concentration	
			7.17E+01	
			0.062 ppm (1-hour)	
			0.045 ppm (8-hour)	

PM₁₀	Pounds Per day	Grams Per day	Grams Per Second	Meters squared (area)
	4.72	2140.956	0.0743	1,042,874.899

CalEEMod	3.3		Screen 3 Output	
Trucks	0.32		3.93E+07	
Cars	1.1			
Total	4.72		FINAL Concentration	
			2.80E+00	

PM10 Calculation

$$C_x = 0.9403 C_o e^{-0.0462 x}$$

$$C_o^2 = 1.12E+00$$

$$e = 0.3150575$$

$$x \text{ (meters)} = 25$$

$$C_x = 0.33$$

Total PM₁₀: 3.32E-01

PM_{2.5}	Pounds Per day	Grams Per day	Grams Per Second	Meters squared (area)
	4.55	2063.8453	0.0717	1,042,874.899

CalEEMod	3.22		Screen 3 Output	
Trucks	0.29		3.93E+07	
Cars	1.04			
Total	4.55		FINAL Concentration	
			2.70E+00	

PM2.5 Calculation

$$C_x = 0.9403 C_o e^{-0.0462 x}$$

$$C_o^2 = 1.08E+00$$

$$e = 0.3150575$$

$$x \text{ (meters)} = 25$$

$$C_x = 0.32$$

Total PM_{2.5}: 3.20E-01

¹ Per SCAQMD LST Handbook (Table 2-4) NO_x to NO₂ conversion factor
² Conversion factor of 0.4 applied to convert from one-hour max to 24-hour average (ARB Table H.1)

Operations mitigated

NO₂¹

Downwind Distance	NO ₂ /NO _x Ratio	SCREEN3 OP	NO ₂ Concentration (ug/m3)	NO ₂ Concentration (ppm)
20	0.05	14.120	0.75	0.0004
50	0.06	14.400	0.85	0.0005
70	0.06	14.590	0.93	0.0005
100	0.07	14.850	1.10	0.0006
200	0.11	15.690	1.79	0.0010
500	0.26	17.730	4.57	0.0024
1000	0.47	11.540	5.39	0.0029
2000	0.75	5.819	4.36	0.0023
3000	0.90	4.116	3.70	0.0020
4000	0.98	3.211	3.14	0.0017
5000	1.00	2.634	2.63	0.0014

CO	Pounds Per day	Grams Per day	Grams Per Second	Meters squared (area)
	250.09	113438.92	3.93885124	1,042,874.899
CalEEMod	74.43		Screen 3 Output	
Trucks	25.11		6.15E+06	
Cars	150.55			
Total	250.09		FINAL Concentration	
			2.32E+01	
			0.020 ppm (1-hour)	
			0.015 ppm (8-hour)	

PM₁₀	Pounds Per day	Grams Per day	Grams Per Second	Meters squared (area)
	4.67	2118.2764	0.0736	1,042,874.899
CalEEMod	3.25		Screen 3 Output	
Trucks	0.32		2.88E+07	
Cars	1.1			
Total	4.67		FINAL Concentration	
			2.03E+00	

PM10 Calculation

$$C_x = 0.9403 C_o e^{-0.0462 x}$$

C _o ²	8.11E-01
e	0.3150575
x (meters)	25
C _x	0.24

Total PM₁₀: 2.40E-01

PM_{2.5}	Pounds Per day	Grams Per day	Grams Per Second	Meters squared (area)
	4.5	2041.1657	0.0709	1,042,874.899
CalEEMod	3.17		Screen 3 Output	
Trucks	0.29		2.88E+07	
Cars	1.04			
Total	4.5		FINAL Concentration	
			1.95E+00	

PM2.5 Calculation

$$C_x = 0.9403 C_o e^{-0.0462 x}$$

C _o ²	7.82E-01
e	0.3150575
x (meters)	25
C _x	0.23

Total PM_{2.5}: 2.32E-01

¹ Per SCAQMD LST Handbook (Table 2-4) NO_x to NO₂ conversion factor

² Conversion factor of 0.4 applied to convert from one-hour max to 24-hour average (ARB Table H.1)

10/14/14

15:01:53

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

Meredith Operational LST Analysis - CO

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = AREA
EMISSION RATE (G/(S-M**2)) = 1.00000
SOURCE HEIGHT (M) = 5.0000
LENGTH OF LARGER SIDE (M) = 1021.2125
LENGTH OF SMALLER SIDE (M) = 1021.2125
RECEPTOR HEIGHT (M) = 2.0000
URBAN/RURAL OPTION = URBAN

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = 0.000 M**4/S**3; MOM. FLUX = 0.000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
1300.	0.1801E+08	5	1.0	1.0	10000.0	5.00	45.

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	0.1801E+08	1300.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

10/14/14

15:02:47

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

Meredith Operational LST Analysis - PM10/PM2.5

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = AREA
EMISSION RATE (G/(S-M**2)) = 1.00000
SOURCE HEIGHT (M) = 1.0000
LENGTH OF LARGER SIDE (M) = 1021.2125
LENGTH OF SMALLER SIDE (M) = 1021.2125
RECEPTOR HEIGHT (M) = 2.0000
URBAN/RURAL OPTION = URBAN

THE NON-REGULATORY BUT CONSERVATIVE BRODE 2 MIXING HEIGHT OPTION WAS SELECTED.

THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = 0.000 M**4/S**3; MOM. FLUX = 0.000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
1.	0.3934E+08	6	1.0	1.0	10000.0	1.00	45.

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	0.3934E+08	1.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

10/16/14

12:26:48

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

Meredith Operational LST Analysis - NO2 Unmitigated

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = AREA
EMISSION RATE (G/(S-M**2)) = 0.482000E-06
SOURCE HEIGHT (M) = 5.0000
LENGTH OF LARGER SIDE (M) = 1021.2125
LENGTH OF SMALLER SIDE (M) = 1021.2125
RECEPTOR HEIGHT (M) = 2.0000
URBAN/RURAL OPTION = URBAN

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = 0.000 M**4/S**3; MOM. FLUX = 0.000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
20.	14.21	5	1.0	1.0	10000.0	5.00	45.
50.	14.49	5	1.0	1.0	10000.0	5.00	45.
70.	14.68	5	1.0	1.0	10000.0	5.00	45.
100.	14.94	5	1.0	1.0	10000.0	5.00	45.
200.	15.79	5	1.0	1.0	10000.0	5.00	45.
500.	17.84	5	1.0	1.0	10000.0	5.00	45.
1000.	11.62	5	1.0	1.0	10000.0	5.00	45.
2000.	5.856	5	1.0	1.0	10000.0	5.00	45.
3000.	4.142	5	1.0	1.0	10000.0	5.00	45.
4000.	3.231	5	1.0	1.0	10000.0	5.00	45.
5000.	2.651	5	1.0	1.0	10000.0	5.00	44.

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION MAX CONC DIST TO TERRAIN

PROCEDURE	(UG/M**3)	MAX (M)	HT (M)
-----	-----	-----	-----
SIMPLE TERRAIN	17.84	500.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

PROCEDURE	(UG/M**3)	MAX (M)	HT (M)
-----	-----	-----	-----
SIMPLE TERRAIN	17.73	500.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
