

Appendix C1. Air Quality Analysis

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AIR QUALITY ANALYSIS

**FANITA RANCH PROJECT
CITY OF SANTEE
SAN DIEGO COUNTY, CALIFORNIA**

LSA

May 2020

AIR QUALITY ANALYSIS

**FANITA RANCH PROJECT
CITY OF SANTEE
SAN DIEGO COUNTY, CALIFORNIA**

Prepared for:

City of Santee
10601 Magnolia Avenue
Santee, California 92071

Prepared by:

LSA Associates, Inc.
20 Executive Park, Suite 200
Irvine, California 92614-4731
(949) 553-0666

Project No. HRS1601



May 2020

EXECUTIVE SUMMARY

This Air Quality Analysis report has been prepared to evaluate the potential air quality impacts associated with the proposed Fanita Ranch Project (project) in the City of Santee, San Diego County, California. This report provides a project-specific air quality analysis by examining the impacts of the proposed project on adjacent sensitive uses, as well as the impacts of the proposed project on the regional air quality. This report also evaluates mitigation measures that would be required to reduce identified air quality impacts. The City of Santee does not have guidelines or significance thresholds for air quality. Therefore, the analysis follows the guidelines identified by the County of San Diego (County) in its *Guidelines for Determining Significance and Report Format and Content Requirements – Air Quality* (County of San Diego 2007). Air quality data posted on the California Air Resources Board (ARB) and United States Environmental Protection Agency websites are included to document the local air quality environment. Modeled criteria air pollutants emissions are consistent with the trip generation and vehicle miles traveled (VMT) estimates developed for the proposed project (LLG 2020).

Results of the analysis indicate that emissions with regional effects during project construction, which were calculated with the California Emissions Estimator Model (CalEEMod) Version 2016.3.2, would exceed criteria pollutant thresholds for particulate matter smaller than or equal to 10 microns in diameter (PM₁₀) and particulate matter smaller than or equal to 2.5 microns in diameter (PM_{2.5}) established by the County. The impacts under the Preferred Land Use Plan with School and the Land Use Plan without School would be the same since the construction activities would be identical for both land use plans. The following Mitigation Measures (MMs) would be required:

MM AIR-1 As required by San Diego Air Pollution Control District (SDAPCD) Rule 55—Fugitive Dust Control, all construction activities that are capable of generating fugitive dust are required to implement dust control measures during each phase of project development to reduce the amount of particulate matter entrained in the ambient air. The following measures shall be implemented by the construction contractor and included in project construction documents, including the grading plan, which shall be reviewed and approved by the City of Santee prior to issuance of a grading permit.

- Use track-out grates or gravel beds at each egress point, wheel-washing at each egress during muddy conditions, soil binders, chemical soil stabilizers, geotextiles, mulching, or seeding.
- Use secured tarps or cargo covering, watering, or treating of transported material for outbound transport trucks.
- Remove visible roadway dust as a result of active operations, spillage from transport trucks, erosion, or track-out/carry-out at the conclusion of each work day when active operations cease, or every 24 hours for continuous operations. If a street sweeper is used to remove any track-out/carry-out, only PM₁₀-efficient street sweepers certified to meet the most current South Coast Air Quality Management District Rule 1186 requirements shall be used.

In addition, visual fugitive dust emissions monitoring shall be conducted during all construction phases. Visual monitoring shall be logged. If high wind conditions result in visible dust during visual monitoring, this demonstrates that the above measures are inadequate to reduce dust in accordance with SDAPCD Rule 55, and construction shall cease until high winds decrease and conditions improve.

MM AIR-2 As a supplement to San Diego Air Pollution Control District's Rule 55, Fugitive Dust Control, the applicant shall require the contractor to implement the following dust-control measures during construction. The measures shall be included in project construction documents, including the grading plan, and be reviewed and approved by the City of Santee prior to issuance of a grading permit.

- Apply soil stabilizers to inactive construction areas.
- Quickly replace groundcover in disturbed areas that are no longer actively being graded or disturbed. If an area has been graded or disturbed and is currently inactive for 20 days or more but will be disturbed at a later time, soil stabilizers shall be applied to stabilize the soil and prevent windblown dust.
- Reduce vehicle speeds on unpaved roads

MM AIR-3 The City of Santee shall require all heavy-duty, diesel-powered construction equipment used on the project site during the construction phases be powered by California Air Resources Board-certified Tier 4 (Final) or newer engines, and all diesel-powered haul trucks be 2010 model year or newer that conform to 2010 U.S. Environmental Protection Agency truck standards. This requirement shall be included in the construction contractor's contract specifications and shall be included in project construction documents, including the grading plan, which shall be reviewed and approved by the City of Santee prior to issuance of a grading permit. This mitigation measure applies to all construction phases.

MM AIR-4 The City of Santee shall require the project construction contractor to maintain construction equipment engines in good condition and in proper tune per the manufacturer's specification for the duration of construction. Contract specifications shall be included in project construction documents, including the grading plan, which shall be reviewed and approved by the City of Santee prior to issuance of a grading permit.

MM AIR-5 During construction activities, when on-site electricity is available, the City of Santee shall require the project construction contractor to rely on the electricity infrastructure surrounding the construction site rather than electrical generators powered by internal combustion engines. Contract specifications shall be included in project construction documents, including the grading plan, which shall be reviewed and approved by the City of Santee prior to issuance of a grading permit.

Implementation of **MM AIR-1** through **AIR-5** would reduce PM_{10} and $PM_{2.5}$ emissions, but not less than the County thresholds. Therefore, the short-term construction impacts would be significant and unavoidable.

Results of the analysis indicate that emissions with regional effects during project operation, which were also calculated with CalEEMod, would exceed criteria pollutant thresholds for volatile organic compounds (VOC), carbon monoxide (CO), and PM₁₀ established by the County under both Preferred Land Use Plan with School and Land Use Plan without School. The following mitigation measures would be required to reduce VOC, CO, and PM₁₀. MM GHG-4 from the Greenhouse Gas Emissions Analysis (LSA May 2020) will also modestly reduce operational emissions of VOC, CO, and PM₁₀, and is applied in this analysis as shown below:

MM GHG-4 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project will include all-electric homes. No natural gas shall be provided to the residential portion of the project

MM AIR-6 Prior to the recordation of first final map in each phase, the applicant or its designee shall provide evidence to City of Santee that the project shall implement the following Transportation Demand Management measures as identified in the *Transportation Impact Analysis* (LLG 2020):

- Improve design of development to enhance walkability and connectivity;
- Provide pedestrian network improvements;
- Provide traffic calming measures;
- Provide bike lanes in the street design;
- Provide bike parking for multifamily residential uses;
- Implement car-sharing program;
- Provide ride-sharing programs;
- Implement commute trip reduction marketing;
- Implement a school carpool program under Preferred Land Use Plan with School; and
- Implement a Neighborhood Electric Vehicle (NEV) Network.

MM AIR-7 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project shall include a total of 1,203 240-volt Level 2 Electric Vehicle Supply Equipment (EVSE) in each garage provided for a Low Density Residential (LDR) unit, a total of 354 EVSE within the parking areas of the remaining residential units (Medium Density Residential (MDR), Village Center (VC) and Active Adult Residential (AA)), and 15 EVSE within the project's commercial parking lots.

MM AIR-8 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project applicant will utilize high-efficiency equipment and fixtures that exceed 2016 California Green Building Standards Code and 2019 Title 24, Part 6 energy conservation standards by 14 percent. When the standards are updated, the project applicants shall utilize high-efficiency equipment and fixtures meeting or exceeding the latest standards.

MM AIR-9 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project will comply with SDAPCD Rule 67.0.1 – Architectural Coatings and use paints no more than 50 grams of VOC per liter of coating. The project applicants shall use water-based paints when possible. In addition, to reduce the exterior area of the buildings that needs to be repainted, when possible, the project applicants shall use construction materials that do not require painting or pre-painted construction materials. Furthermore, the project applicants shall use low VOC cleaning supplies to further reduce VOC emissions from area sources. This requirement shall be included in the construction contractor’s contract specifications and project construction documents, which shall be reviewed and approved by the City of Santee prior to issuance of a construction permit.

MM AIR-10 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City that the design plans for residential structures include electrical outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.

Implementation of **MM AIR-6** through **AIR-10** and MM GHG-4 would reduce CO emissions to below the County threshold, while VOC and PM₁₀ emissions would remain significant under either the Preferred Land Use Plan with School or Land Use Plan without School. Therefore, the long-term operational impacts would be significant and unavoidable.

Historical air quality data show that existing CO levels for the project area and its general vicinity do not exceed either State of California (State) or federal ambient air quality standards. The proposed project would not result in any significant impact in CO concentrations at intersections in the project vicinity under either Preferred Land Use Plan with School or Land Use Plan without School.

Effects of toxic air contaminants (TAC) from construction activities were evaluated. The greatest potential for TAC emissions during construction activities would be related to emissions of diesel particulate matter (DPM) associated with heavy equipment operations during site preparation, grading, and utilities construction activities. Phase 1 and Phase 2 construction was analyzed as the worst-case, because the later construction phases would be further away from sensitive receptors, outside of the 1,000 feet screening distance for potential impacts, and emit lower levels of DPM. With the implementation of **MM AIR-3** through **AIR-5**, which would reduce on-site exhaust PM₁₀ emissions, the non-cancer risk levels at on-site sensitive receptors and the cancer and non-cancer risk levels at off-site sensitive receptors during Phase 1 and Phase 2 construction of the project would not exceed the SDAPCD threshold. However, the cancer risk levels at future sensitive receptors located on site in the Village Center located in Fanita Commons would exceed the SDAPCD threshold. The health risk levels at off-site sensitive receptors located in close vicinity to the roadways that would be constructed as part of the project would not exceed the cancer and non-cancer risk thresholds. The following mitigation measure would be required:

MM AIR-11 The City of Santee shall require the project applicant to complete Phase 1 earthmoving and asphalt paving activities within 300 feet from the southwest corner of the Village Center located in Fanita Commons before any residents occupy the Village Center. The applicant shall also integrate the Phase 2 grading and utilities construction activities

within 500 feet from the southwest corner of the Village Center into Phase 1 so that activities are complete prior to occupation of the Fanita Commons Village Center.

Implementation of **MM AIR-11** would reduce the cancer risks at on-site sensitive receptors during Phase 1 and Phase 2 construction of the project to below the SDAPCD threshold and the impact would be less than significant.

The commercial component of the Fanita Ranch Project does not include specific uses or tenants but does allow the types of businesses such as gasoline dispensing stations that could emit TACs. Therefore, the following mitigation measure would be required to ensure specific health risk assessment would be conducted for on-site TAC-emitting facilities:

MM AIR-12 The City of Santee shall require the applicant to avoid siting new on-site toxic air contaminant sources in close vicinity of residences and schools. Gasoline dispensing facilities with a throughput of less than 3.6 million gallons per year must have the gasoline dispensers at least 50 feet from the nearest residential land use, day care center, or school. In addition, gasoline dispensing facilities with a throughput of 3.6 million gallons per year or more, distribution centers, and dry cleaning operations are prohibited within the project.

With the implementation of mitigation measure **MM AIR-12**, the impacts from on-site TAC-emitting facilities would be reduced to less than significant.

Although a change in odor levels is not expected with the project, the proposed project would be required to comply with SDAPCD Rule 51 in the event a nuisance complaint occurs. Impacts associated with objectionable odors would be less than significant.

The City's General Plan is consistent with the SDAPCD 2016 Regional Air Quality Strategy (RAQS) (SDAPCD 2016a). However, the proposed project is inconsistent with the City of Santee's (City) zoning designation for the project site, and is inconsistent with the City's General Plan development assumptions for the site. Moreover, the project would exceed the 2013 General Plan Housing Element Amendment growth assumptions. The project would also exceed the regional significance threshold for PM₁₀ and PM_{2.5} during project construction and the thresholds for VOC and PM₁₀ during project operation. Therefore, the project is considered inconsistent with the RAQS based upon the project growth assumption and quantitative analysis of mass emissions the project emits. The impacts would be significant and unavoidable.

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- D: CALINE4 OUTPUT

LIST OF ABBREVIATIONS AND ACRONYMS

°F	degrees Fahrenheit
°C	degrees Celsius
µg/m ³	micrograms per cubic meter
AAQS	Ambient Air Quality Standards
ARB	California Air Resources Board
Basin	San Diego Air Basin
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CCAA	California Clean Air Act
CEQA	California Environmental Quality Act
City	City of Santee
CO	carbon monoxide
County	County of San Diego
DPM	diesel particulate matter
EPA	United States Environmental Protection Agency
H ₂ S	hydrogen sulfide
HRA	health risk assessment
lbs/day	pounds per day
LOS	level of service
mg/m ³	milligrams per cubic meter
MM	mitigation measure
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NEV	neighborhood electric vehicle
NO	nitric oxide
NO ₂	nitrogen dioxide
NOx	nitrogen oxides
O ₃	ozone (or smog)
PDMWD	Padre Dam Municipal Water District
project	Fanita Ranch Project
PM ₁₀	particulate matter smaller than or equal to 10 microns in diameter
PM _{2.5}	particulate matter smaller than or equal to 2.5 microns in diameter
ppm	parts per million

RAQS	Regional Air Quality Standards
ROCs	reactive organic compounds
ROGs	reactive organic gases
SANDAG	San Diego Association of Governments
SCAQMD	South Coast Air Quality Management District
SDAPCD	San Diego Air Pollution Air District
SIP	State Implementation Plan
SJVAPCD	San Joaquin Valley Unified Air Pollution Control District
SO ₂	sulfur dioxide
SO _x	sulfur oxides
SR	State Route
State	State of California
TACs	toxic air contaminants
TIA	Traffic Impact Analysis
TDM	Transportation Demand Management
VMT	vehicle miles traveled
VOCs	volatile organic compounds
WRF	Water Recycling Facility

PROJECT DESCRIPTION

INTRODUCTION

This Air Quality Analysis has been prepared to evaluate the potential air quality impacts and mitigation measures associated with the proposed Fanita Ranch Project (project) in the City of Santee, San Diego County, California. This report provides a project-specific air quality analysis by examining the impacts of the proposed project on adjacent sensitive uses, as well as the impacts of the proposed project on the regional air quality. This report also evaluates mitigation measures that would be required to reduce identified air quality impacts from the proposed project. Because the City of Santee does not have guidelines and thresholds for significance, guidelines identified by the County of San Diego (County) in its *Guidelines for Determining Significance and Report Format and Content Requirements* (Air Quality Guidelines; County of San Diego 2007) were followed in this analysis.

PROJECT LOCATION AND DESCRIPTION

The project site consists of approximately 2,638 acres located in the northwest quadrant of the City of Santee (City) in eastern San Diego County. The project lies north of State Route (SR) 52 and west of SR-67 and would be accessed from the future northerly extensions of Fanita Parkway and Cuyamaca Street via Mast Boulevard and the future extension of Magnolia Avenue to Cuyamaca Street. Figure 1 shows the project location.

The proposed project would be a master planned community consisting of up to 2,949 housing units with a K-8 school (Preferred Land Use Plan with School), or 3,008 units without a K-8 school (Land Use Plan without School), up to 80,000 square feet of commercial uses, parks, open space, and agriculture uses. Should the Santee School District not acquire the proposed school site, the school site would be developed with an additional 59 units, for a total of 3,008 residential units. This plan is referred to as the "Land Use Plan without School." Development within the proposed project would be clustered, preserving more than 63 percent of the site as Habitat Preserve. The bulk of the preserve area, approximately 900 acres, would be located in the southern portion of the site and include a network of trails. The existing project site is currently vacant. Figure 2 illustrates the conceptual site plan.

Construction of the proposed project would be divided into four phases and is anticipated to begin in summer 2021 with a buildout of approximately 10-15 years.

EXISTING SENSITIVE LAND USES IN THE PROJECT AREA

The project site is bordered by Marine Corps Air Station Miramar and Padre Dam Municipal Water District (PDMWD) facilities including Santee Lakes Recreation Preserve to the west; open space/recreational areas including Goodan Ranch Regional Park and Sycamore Canyon County Preserve to the north and west; residential neighborhoods to the south within the City limits; and the unincorporated residential community of Eucalyptus Hills to the east.

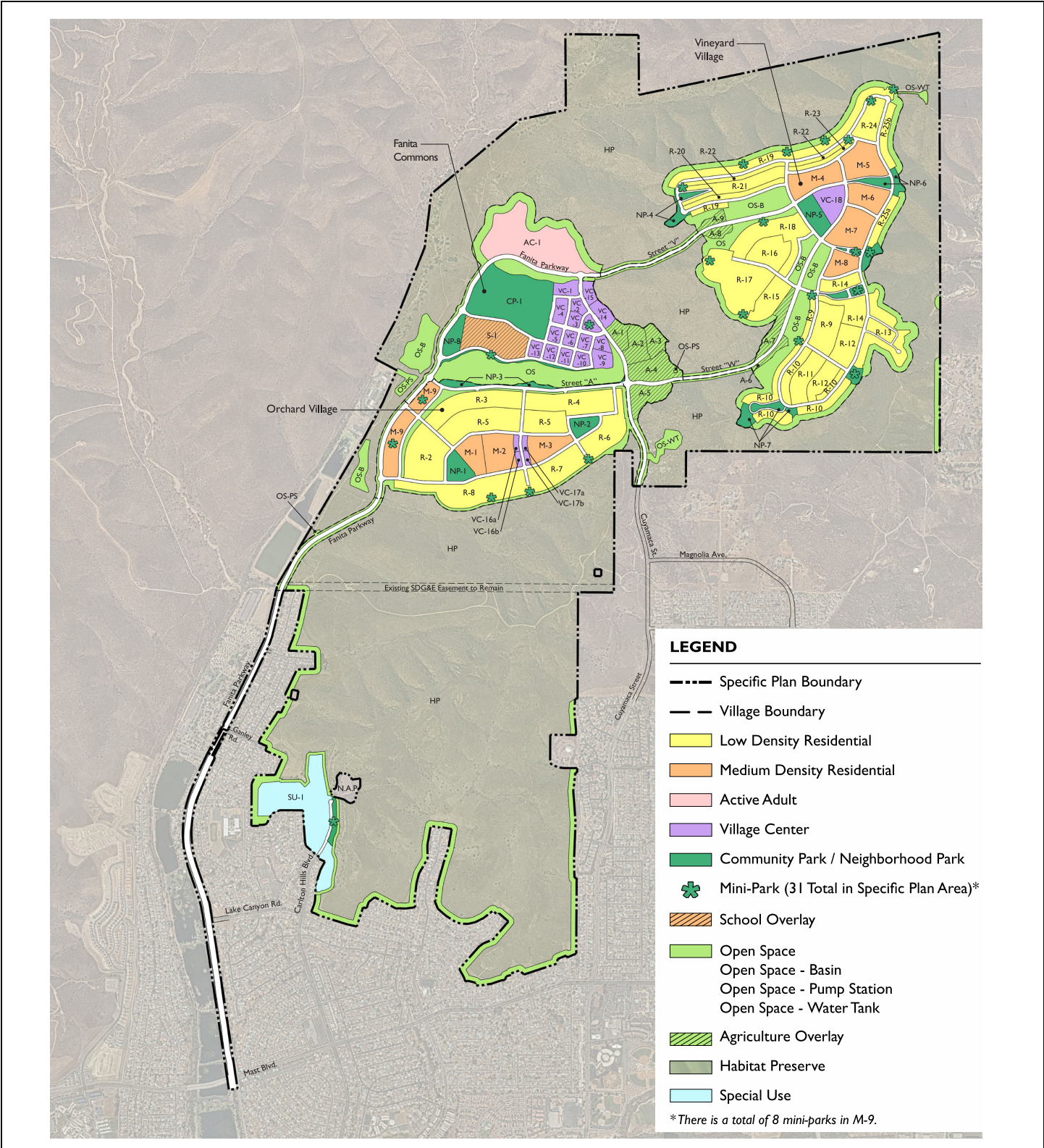


FIGURE 2

LSA



Fanita Ranch Specific Plan
Air Quality Analysis Report
Project Site Plan

PROJECT SETTING

REGIONAL AIR QUALITY

The project site is located in Santee, San Diego County, California, which is part of the San Diego Air Basin (Basin). Both the State and the federal governments have established health-based ambient air quality standards (AAQS) for seven air pollutants. As detailed in Table A, these pollutants include ozone (O₃), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), particulate matter smaller than or equal to 10 microns in diameter (PM₁₀), particulate matter smaller than or equal to 2.5 microns in diameter (PM_{2.5}), and lead. In addition, the State has set standards for sulfates, hydrogen sulfide (H₂S), vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

Table B summarizes the primary health effects and sources of common air pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety (United States Environmental Protection Agency [EPA]), these health effects will not occur unless the standards are exceeded by a large margin or for a prolonged period of time. State AAQS (California Ambient Air Quality Standards, or CAAQS) are more stringent than federal AAQS (National Ambient Air Quality Standards, or NAAQS). Among the pollutants, O₃ and particulate matter (PM_{2.5} and PM₁₀) are considered pollutants with regional effects, while the others have more localized effects.

The California Clean Air Act (CCAA) provides the San Diego Air Pollution Control District (SDAPCD) and other air districts with the authority to manage transportation activities at indirect sources. Indirect sources of pollution include any facility, building, structure, installation, or combination thereof, that attracts or generates mobile-source activity that results in emissions of any pollutant. In addition, the local air districts also manage area-source emissions that are generated when minor sources collectively emit a substantial amount of pollution (e.g., motor vehicles at an intersection, a mall, and on highways). Direct emissions from motor vehicles are regulated by the California Air Resources Board (ARB).

Climate/Meteorology

The boundaries of the Basin are contiguous with the political boundaries of San Diego County. San Diego County encompasses approximately 4,260 square miles and is bounded on the north by Orange and Riverside Counties, on the east by Imperial County, on the west by the Pacific Ocean, and on the south by the Mexican state of Baja California. San Diego County is divided by the Laguna Mountain Range, which runs approximately parallel to the coast about 45 miles inland and separates the coastal area from the desert portion of the county. The Laguna Mountains have peaks reaching over 6,000 feet, with the highest point in the county being Hot Springs Mountain, which rises to 6,533 feet.

Table A: Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards ¹		National Standards ²		
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷
Ozone (O ₃) ⁸	1-Hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8-Hour	0.070 ppm (137 µg/m ³)		0.070 ppm (137 µg/m ³)		
Respirable Particulate Matter (PM ₁₀) ⁹	24-Hour	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m ³		—		
Fine Particulate Matter (PM _{2.5}) ⁹	24-Hour	—	—	35 µg/m ³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12.0 µg/m ³	15 µg/m ³	
Carbon Monoxide (CO)	1-Hour	20 ppm (23 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m ³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8-Hour	9.0 ppm (10 mg/m ³)		9 ppm (10 mg/m ³)	—	
	8-Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		—	—	
Nitrogen Dioxide (NO ₂) ¹⁰	1-Hour	0.18 ppm (339 µg/m ³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m ³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m ³)		53 ppb (100 µg/m ³)	Same as Primary Standard	
Sulfur Dioxide (SO ₂) ¹¹	1-Hour	0.25 ppm (655 µg/m ³)	Ultraviolet Fluorescence	75 ppb (196 µg/m ³)	—	Ultraviolet 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) ¹¹	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) ¹¹	—	
Lead ^{12,13}	30-Day Average	1.5 µg/m ³	Atomic Absorption	—	—	High-Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m ³ (for certain areas) ¹³	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m ³		
Visibility- Reducing Particles ¹⁴	8-Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24-Hour	25 µg/m ³	Ion Chromatography			
Hydrogen Sulfide	1-Hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence			
Vinyl Chloride ¹²	24-Hour	0.01 ppm (26 µg/m ³)	Gas Chromatography			

Source: ARB. Ambient Air Quality Standards (2016).
The footnotes for this table are provided on the following page.

Footnotes:

- ¹ California standards for O₃, CO (except 8-hour Lake Tahoe), SO₂ (1- and 24-hour), NO₂, and particulate matter (PM₁₀, PM_{2.5}, and visibility reducing particles) are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- ² National standards (other than O₃, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once per year. The O₃ standard is attained when the fourth-highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM₁₀, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For PM_{2.5}, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact the EPA for further clarification and current national policies.
- ³ Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- ⁴ Any equivalent measurement method that can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
- ⁵ National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- ⁶ National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- ⁷ Reference method as described by the EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the EPA.
- ⁸ On October 1, 2015, the national 8-hour O₃ primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- ⁹ On December 14, 2012, the national annual PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour PM_{2.5} standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM₁₀ standards (primary and secondary) of 150 µg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- ¹⁰ To attain the 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- ¹¹ On June 2, 2010, the new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved. Note that the 1-hour national standard is in units of ppb. California standards are in units of ppm. To directly compare the 1-hour national standard to the California standard, the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
- ¹² The ARB has identified lead and vinyl chloride as “toxic air contaminants” with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- ¹³ The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standards are approved.
- ¹⁴ In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are “extinction of 0.23 per kilometer” and “extinction of 0.07 per kilometer” for the statewide and Lake Tahoe Air Basin standards, respectively.

°C = degrees Celsius

µg/m³ = micrograms per cubic meter

ARB = California Air Resources Board

EPA = United States Environmental Protection Agency

mg/m³ = milligrams per cubic meter

ppb = parts per billion

ppm = parts per million

Table B: Summary of Health Effects of the Major Criteria Air Pollutants

Pollutant	Health Effects	Examples of Sources
Particulate matter (PM _{2.5} and PM ₁₀ : less than or equal to 2.5 or 10 microns, respectively)	<ul style="list-style-type: none"> ● Hospitalizations for worsened heart diseases ● Emergency room visits for asthma ● Premature death 	<ul style="list-style-type: none"> ● Cars and trucks (especially diesels) ● Fireplaces, woodstoves ● Windblown dust from roadways, agriculture, and construction
Ozone (O ₃)	<ul style="list-style-type: none"> ● Cough, chest tightness ● Difficulty taking a deep breath ● Worsened asthma symptoms ● Lung inflammation 	<ul style="list-style-type: none"> ● Precursor sources:¹ motor vehicles, industrial emissions, and consumer products
Carbon monoxide (CO)	<ul style="list-style-type: none"> ● Chest pain in heart patients² ● Headaches, nausea² ● Reduced mental alertness² ● Death at very high levels² 	<ul style="list-style-type: none"> ● Any source that burns fuel, such as cars, trucks, construction and farming equipment, and residential heaters and stoves
Nitrogen dioxide (NO ₂)	<ul style="list-style-type: none"> ● Increased response to allergens 	<ul style="list-style-type: none"> ● See CO sources
Toxic Air Contaminants (TACs)	<ul style="list-style-type: none"> ● Cancer ● Chronic eye, lung, or skin irritation ● Neurological and reproductive disorders 	<ul style="list-style-type: none"> ● Cars and trucks (especially diesels) ● Industrial sources, such as chrome platers ● Neighborhood businesses, such as dry cleaners and service stations ● Building materials and products

Source: ARB Fact Sheet: Air Pollution and Health. Website: <http://www.arb.ca.gov/research/health/fs/fs1/fs1.htm> (accessed February 2019).

¹ O₃ is not generated directly by these sources. Rather, chemicals emitted by these precursor sources react with sunlight to form O₃ in the atmosphere.

² Health effects from CO exposures occur at levels considerably higher than ambient.

ARB = California Air Resources Board
CO = carbon monoxide

The coastal region is made up of coastal terraces that rise from the ocean into wide mesas, which then, moving farther east, transition into the Laguna Foothills. Farther east, the topography gradually rises to the rugged mountains. On the east side, the mountains drop off rapidly to the Anza-Borrego Desert, which is characterized by several broken mountain ranges with desert valleys in between. To the north of San Diego County are the Santa Ana Mountains, which run along the coast of Orange County, turning east to join with the Laguna Mountains near the San Diego/Orange County border.

The climate of the Basin, as with all of Southern California, is largely dominated by the strength and position of the semi-permanent high-pressure system over the Pacific Ocean, known as the Pacific High. This high-pressure ridge over the West Coast often creates a pattern of late-night and early-morning low clouds, hazy afternoon sunshine, daytime onshore breezes, and little temperature variation year-round. The climatic classification for San Diego is a Mediterranean climate, with warm, dry summers and mild, wet winters. Average annual precipitation ranges from approximately 10 inches on the coast to over 30 inches in the mountains to the east (the desert regions of San Diego County generally receive between 4 and 6 inches per year).

The favorable climate of the Basin also works to create air pollution problems. Sinking or subsiding air from the Pacific High Pressure Zone creates a temperature inversion, known as a subsidence inversion, which acts as a lid to vertical dispersion of pollutants. Weak summertime pressure

gradients further limit horizontal dispersion of pollutants in the mixed layer below the subsidence inversion. The combination of poorly dispersed anthropogenic emissions and strong sunshine leads to photochemical reactions, which results in the creation of O₃ at this surface layer. Daytime onshore flow (i.e., sea breeze) and nighttime offshore flow (i.e., land breeze) are quite common in Southern California.

The sea breeze helps to moderate daytime temperatures in the western portion of San Diego County, which greatly adds to the climatic draw of the region. This also leads to emissions being blown out to sea at night and returning to land the following day. Under certain conditions, this atmospheric oscillation results in the offshore transport of air from the Los Angeles region to San Diego County, which often results in high O₃ concentrations being measured at San Diego County air pollution monitoring stations. Transport of air pollutants from Los Angeles to San Diego has also been shown to occur aloft within the stable layer of the elevated subsidence inversion. In this layer, removed from fresh emissions of NO_x, which would scavenge and reduce O₃ concentrations, high levels of O₃ are transported into San Diego County.

Air Pollution Constituents and Attainment Status

The ARB coordinates and oversees both State and federal air pollution control programs in California. The ARB oversees the activities of local air quality management agencies and maintains air quality monitoring stations throughout California in conjunction with the EPA and local air districts. The ARB has divided the State into 15 air basins based on meteorological and topographical factors of air pollution. Data collected at these stations are used by the ARB and EPA to classify air basins as attainment, nonattainment, nonattainment-transitional, or unclassified, based on air quality data for the most recent 3 calendar years compared with the AAQS.

Attainment areas may be:

- Attainment/unclassified (“unclassifiable” in some lists), which have never violated the air quality standard of interest or do not have enough monitoring data to establish attainment or nonattainment status;
- Attainment-maintenance (NAAQS only), which violated a NAAQS that is currently in use (was nonattainment) in or after 1990, but now attain the standard and are officially redesignated as attainment by the EPA with a maintenance State Implementation Plan (SIP); or
- Attainment (usually only for CAAQS, but sometimes for NAAQS), which have adequate monitoring data to show attainment, have never been nonattainment, or, for NAAQS, have completed the official maintenance period.

Nonattainment areas are air basins that do not meet one or more of the CAAQS and are subject to additional restrictions as required by the EPA. The air quality data are also used to monitor progress in attaining air quality standards. Table C lists the attainment status for the criteria pollutants in the Basin.

Table C: Attainment Status of Criteria Pollutants in the San Diego Air Basin

Pollutant	State	Federal
O ₃ 1-hour	Nonattainment	No Federal Standard
O ₃ 8-hour	Nonattainment	Nonattainment
PM ₁₀	Nonattainment	Unclassifiable
PM _{2.5}	Nonattainment	Attainment
CO	Attainment	Attainment
NO ₂	Attainment	Attainment
SO ₂	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	Attainment	No Federal Standard
Hydrogen Sulfide	Unclassified	No Federal Standard
Visibility	Unclassified	No Federal Standard

Source: San Diego Air Pollution Control District. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for San Diego County. Website: <http://www.sandiegocounty.gov/content/sdc/apcd/en/air-quality-planning/attainment-status.html> (February 2019).

CO = carbon monoxide
N/A = not applicable
NO₂ = nitrogen dioxide
O₃ = ozone

PM₁₀ = particulate matter smaller than or equal to 10 microns in diameter
PM_{2.5} = particulate matter smaller than or equal to 10 microns in diameter
SO₂ = sulfur dioxide

Ozone

O₃ (smog) is formed by photochemical reactions between NO_x and reactive organic gases (ROGs) rather than being directly emitted. O₃ is a pungent, colorless gas typical of Southern California smog. Elevated O₃ concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors (e.g., the sick, the elderly, and young children). O₃ levels peak during summer and early fall. The entire Basin is designated as a nonattainment area for the State 1-hour and 8-hour O₃ standards. The Basin is designated as nonattainment for the federal 8-hour O₃ standard.

Carbon Monoxide

CO is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. CO is a colorless, odorless gas that can cause dizziness, fatigue, and impairments to central nervous system functions. The entire Basin is in attainment for the State and federal standards for CO.

Nitrogen Oxides

NO₂, a reddish brown gas, and nitric oxide (NO), a colorless, odorless gas, are formed from fuel combustion under high temperature or pressure. These compounds are referred to as NO_x. NO_x is a primary component of the photochemical smog reaction. NO₂ also contributes to other pollution problems, including a high concentration of fine particulate matter (PM_{2.5}), poor visibility, and acid deposition (i.e., acid rain). NO₂ decreases lung function and may reduce resistance to infection. The entire Basin is designated as attainment for both the State and federal NO₂ standards.

Sulfur Dioxide

SO₂ is a colorless, irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO₂ levels. SO₂ irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight. The entire Basin is in attainment with both the federal and State SO₂ standards.

Lead

Lead is found in old paints and coatings, plumbing, and a variety of other materials. Once in the bloodstream, lead can cause damage to the brain, nervous system, and other body systems. Children are highly susceptible to the effects of lead. The entire Basin is in attainment with both the federal and State lead standards.

Particulate Matter

Particulate matter is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles (PM₁₀) derive from a variety of sources, including windblown dust and grinding operations. Fuel combustion and resultant exhaust from power plants and diesel buses and trucks are primarily responsible for PM_{2.5} levels. Fine particles can also be formed in the atmosphere through chemical reactions. PM₁₀ can accumulate in the respiratory system and aggravate health problems (e.g., asthma). The EPA's scientific review concluded that PM_{2.5}, which penetrates deeply into the lungs, is more likely than PM₁₀ to contribute to the health effects listed in a number of recently published community epidemiological studies at concentrations that extend well below those allowed by the current PM₁₀ standards. These health effects include premature death and increased hospital admissions and emergency room visits (primarily among the elderly and individuals with cardiopulmonary disease); increased respiratory symptoms and disease (children and individuals with cardiopulmonary disease [e.g., asthma]); decreased lung function (particularly in children and individuals with asthma); and alterations in lung tissue and structure and in respiratory tract defense mechanisms. The Basin is designated nonattainment for the State PM_{2.5} standards and attainment for the federal PM_{2.5} standard. The Basin is designated as nonattainment for the State PM₁₀ standard and unclassifiable for the federal PM₁₀ standard.

Volatile Organic Compounds

Volatile organic compounds (VOCs; also known as ROG, and reactive organic compounds [ROCs]) are formed from the combustion of fuels and the evaporation of organic solvents. VOCs are not defined as criteria pollutants; however, because VOCs accumulate in the atmosphere more quickly during the winter, when sunlight is limited and photochemical reactions are slower, they are a prime component of the photochemical smog reaction. There are no attainment designations for VOCs.

Sulfates

Sulfates occur in combination with metal and/or hydrogen ions. In California, emissions of sulfur compounds occur primarily from the combustion of petroleum-derived fuels (e.g., gasoline and diesel fuel) that contain sulfur. This sulfur is oxidized to SO₂ during the combustion process and subsequently converted to sulfate compounds in the atmosphere. The conversion of SO₂ to sulfates

takes place comparatively rapidly and completely in urban areas of the State due to regional meteorological features. The entire Basin is in attainment for the State standard for sulfates.

Hydrogen Sulfide

H₂S is a colorless gas with the odor of rotten eggs. H₂S is formed during bacterial decomposition of sulfur-containing organic substances. In addition, H₂S can be present in sewer gas and some natural gas, and can be emitted as the result of geothermal energy exploitation. In 1984, an ARB committee concluded that the ambient standard for H₂S is adequate to protect public health and to significantly reduce odor annoyance. The entire Basin is unclassified for the State standard for H₂S.

Visibility-Reducing Particles

Visibility-reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size, and chemical composition, and can be made up of many different materials (e.g., metals, soot, soil, dust, and salt). The State standard is intended to limit the frequency and severity of visibility impairment due to regional haze. The entire Basin is unclassified for the State standard for visibility-reducing particles.

LOCAL AIR QUALITY

The SDAPCD, together with the ARB, maintains ambient air quality monitoring stations in the Basin. The air quality monitoring station closest to the project site is the El Cajon station, located at 533 First Street in El Cajon, approximately 6 miles southeast of the project site, which monitors air pollutant data for all the criteria pollutants. The air quality trends from this station are used to represent the ambient air quality in the project area. The ambient air quality data in Table D show that CO, NO₂, SO₂, PM_{2.5} levels are below the applicable State and federal standards.

The ambient air quality data in Table D show that State 1-hour O₃ standard was not exceeded between 2017 and 2019. The federal and State 8-hour O₃ standard was exceeded 2 to 9 days per year between 2017 and 2019.

REGULATORY SETTINGS

Federal Regulations/Standards

Pursuant to the Federal Clean Air Act (CAA) of 1970, the EPA established the NAAQS. The NAAQS were established for six major pollutants, termed “criteria” pollutants. Criteria pollutants are defined as those pollutants for which the federal and State governments have established AAQS, or criteria, for outdoor concentrations in order to protect public health.

Data collected at permanent monitoring stations are used by the EPA to classify regions as “attainment” or “nonattainment,” depending on whether the regions met the requirements stated in the primary NAAQS. Nonattainment areas are imposed with additional restrictions as required by the EPA. The EPA has designated the San Diego Association of Governments (SANDAG) as the Metropolitan Planning Organization (MPO) responsible for ensuring compliance with the requirements of the CAA for the Basin.

Table D: Ambient Air Quality Monitored at the El Cajon Monitoring Station

Pollutant	Standard	2017	2018	2019
Carbon Monoxide (CO)				
Maximum 1-hr concentration (ppm)		1.4	1.8	1.3
Number of days exceeded:	State: > 20 ppm	0	0	0
Maximum 8-hr concentration (ppm)		1.5	1.1	1.0
Number of days exceeded:	State: ≥ 9.0 ppm	0	0	0
	Federal: ≥ 9.0 ppm	0	0	0
Ozone (O₃)				
Maximum 1-hr concentration (ppm)		0.096	0.087	0.094
Number of days exceeded:	State: > 0.12 ppm	0	0	0
Maximum 8-hr concentration (ppm)		0.081	0.079	0.074
Number of days exceeded:	State: > 0.07 ppm	9	3	2
	Federal: > 0.07 ppm	9	3	2
Coarse Particulates (PM₁₀)				
Maximum 24-hr concentration (µg/m ³)		ND	43.0	38
Number of days exceeded:	State: > 50 µg/m ³	0	0	0
	Federal: > 150 µg/m ³	0	0	0
Annual arithmetic average concentration (µg/m ³)		ND	ND	ND
Exceeded for the year:	State: > 20 µg/m ³	ND	ND	ND
Fine Particulates (PM_{2.5})				
Maximum 24-hr concentration (µg/m ³)		31.8	36.2	23.8
Number of days exceeded:	Federal: > 35 µg/m ³	0	0	0
Annual arithmetic average concentration (µg/m ³)		9.6	9.6	8.6
Exceeded for the year:	State: > 12 µg/m ³	No	No	No
	Federal: > 15 µg/m ³	No	No	No
Nitrogen Dioxide (NO₂)				
Maximum 1-hr concentration (ppm)		0.044	0.045	0.039
Number of days exceeded:	State: > 0.18 ppm	0	0	0
Annual arithmetic average concentration (ppm)		0.010	0.007	0.010
Exceeded for the year:	State: > 0.030 ppm	No	No	No
	Federal: > 0.053 ppm	No	No	No
Sulfur Dioxide (SO₂)				
Maximum 24-hr concentration (ppm)		0.0004	0.004	0.008
Number of days exceeded:	State: > 0.04 ppm	0	0	0
	Federal: > 0.14 ppm	0	0	0
Annual arithmetic average concentration (ppm)		0.0001	0.0001	0.0007
Exceeded for the year:	Federal: > 0.030 ppm	No	No	No

Source 1: United States Environmental Protection Agency. AirData: 2017–2019 Air Quality Data. Website: <https://www.epa.gov/outdoor-air-quality-data/monitor-values-report> (accessed May 2020).

Source 2: California Air Resources Board. iADAM: Air Quality Data Statistics. Website: <http://www.arb.ca.gov/adam> (accessed May 2020).

µg/m³ = micrograms per cubic meter
hr = hour
ND = no data available

PM_{2.5} = particulate matter smaller than or equal to 2.5 microns in diameter
PM₁₀ = particulate matter smaller than or equal to 10 microns in diameter
ppm = parts per million

State Regulations/Standards

In 1967, the State Legislature passed the Mulford-Carrell Act, which combined two Department of Health bureaus (i.e., the Bureau of Air Sanitation and the Motor Vehicle Pollution Control Board), to establish the ARB. Since its formation, the ARB has worked with the public, the business sector, and local governments to find solutions to the State's air pollution problems.

The California Air Pollution Control Officers Association (CAPCOA) is a nonprofit association of the air pollution control officers from all 35 local air quality agencies throughout California. CAPCOA was formed in 1976 to promote clean air and to provide a forum for sharing knowledge, experience, and information among the air quality regulatory agencies around the State. CAPCOA meets regularly with federal and State air quality officials to develop statewide rules and to ensure consistent application of rules and regulations. CAPCOA works with specialized task forces (including regulated industry) by participating actively in the legislative process and continuing to coordinate local efforts with those of the State and federal air agencies. The goal is to protect public health while maintaining economic vitality.

California adopted the CCAA in 1988. The ARB administers the CAAQS for the 10 air pollutants designated in the CCAA. These 10 State air pollutants are the six criteria pollutants designated by the federal CAA as well as four others: visibility-reducing particulates, H₂S, sulfates, and vinyl chloride.

Regional Air Quality Planning Framework

The 1976 Lewis Air Quality Management Act established air districts throughout the State. The CAA Amendments of 1977 required that each state adopt an implementation plan outlining pollution control measures to attain the federal standards in nonattainment areas of the State.

The ARB is responsible for incorporating air quality management plans for local air basins into a SIP for EPA approval. Significant authority for air quality control within the local air basins has been given to local air districts that regulate stationary-source emissions and develop local nonattainment plans.

Regional Air Quality Strategy Plan

The SDAPCD has adopted air quality plans to improve air quality, protect public health, and protect the climate. The San Diego Regional Air Quality Strategy (RAQS) outlines SDAPCD's plans and control measures designed to attain and maintain the State standards, while San Diego's portions of the SIP are designed to attain and maintain federal standards (SDAPCD 2016a). The RAQS was initially adopted in 1991 and is updated on a triennial basis. The RAQS was updated in 1995, 1998, 2001, 2004, 2009, and most recently in December 2016. The RAQS does not currently address the CAAQS for PM_{2.5} and PM₁₀.

SDAPCD has also developed the Basin's input to the SIP, which is required under the federal CAA for areas that are out of attainment of air quality standards. Both the RAQS and SIP demonstrate the effectiveness of ARB measures (mainly for mobile sources) and the SDAPCD's plans and control measures (mainly for stationary and area wide sources) for attaining the O₃ NAAQS. The SIP is also updated on a triennial basis. SDAPCD adopted its attainment plan and Reasonable Available Control Technology Demonstration for the 2008 8-hour O₃ NAAQS in 2016. In addition, the Measures to

Reduce Particulate Matter in San Diego County Report (SDAPCD 2005) proposes measures to reduce particulate matter emissions and recommends measures for further detailed evaluation and, if appropriate, future rule development (or non-regulatory development, if applicable), adoption, and implementation in San Diego County, in order to attain particulate matter CAAQS.

Local Policies

City of Santee General Plan

The City of Santee's General Plan 2020 includes various goals, objectives, and policies that help to improve air quality conditions within Santee, including the following policies from the land use element.

- **Policy 4.3:** The City should locate new neighborhood commercial uses along major roadways in consolidated centers that utilize common access and parking for commercial uses, discourage the introduction of strip commercial uses and require adequate pedestrian links to residential areas.
- **Policy 5.3:** The City shall ensure that industrial development creates no significant off-site impacts related to access and circulation, noise, dust, odors, visual features and hazardous materials that cannot be adequately mitigated.
- **Policy 6.2:** The City should promote the use of innovative site planning to avoid on-site hazards and minimize risk levels.
- **Policy 8.4:** The City should consider the adjacent land use compatibility guide chart to assist in an initial determination of overall land use compatibility for adjacent land uses.

Sustainable Santee Plan: The City's Roadmap to Greenhouse Gas Reductions

The City adopted the Sustainable Santee Plan on January 8, 2020. The Sustainable Santee Plan provides GHG emissions reduction goals and strategies focused on reducing resource consumption, improving alternative modes of transportation, and reducing overall emissions throughout Santee. The Final Sustainable Santee Plan (City of Santee 2020) presents the following goals that would provide air quality co-benefits:

- Goal 1: Increase Energy Efficiency in Existing Residential Units
- Goal 2: Increase Energy Efficiency in New Residential Units
- Goal 3: Increase Energy Efficiency in Existing Commercial Units
- Goal 4: Increase Energy Efficiency in New Commercial Units
- Goal 5: Decrease Energy Demand through Reducing Urban Heat Island Effect
- Goal 6: Decrease Greenhouse Gas Emissions through Reducing Vehicle Miles Traveled
- Goal 7: Increase Use of Electric Vehicles
- Goal 8: Improve Traffic Flow
- Goal 9: Decrease Greenhouse Gas Emissions through Reducing Solid Waste Generation
- Goal 10: Decrease Greenhouse Gas Emissions through Increasing Clean Energy Use

THRESHOLDS OF SIGNIFICANCE

The project site is located in Santee, San Diego County, and in the Basin. The boundaries of the Basin are contiguous with those of San Diego County. The City has not adopted any emissions thresholds for environmental review purposes. Therefore, guidelines and thresholds established by the SDAPCD, the City of San Diego, or the County will be used in this analysis. Based on Appendix G of California Environmental Quality Act (CEQA) Guidelines, a project may have a significant air quality environmental impact if it would:

- Conflict with or obstruct the implementation of the San Diego RAQS and/or applicable portions of the SIP;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the Basin is in nonattainment under an applicable NAAQS or CAAQS;
- Expose sensitive receptors to substantial pollutant concentrations; and/or
- Result in other emissions, such as those leading to odors adversely affecting a considerable number of people.

The SDAPCD provides emission threshold criteria in Rule 20.2, Table 20.2-1, AQIA (Air Quality Impact Analysis) Trigger Levels (SDAPCD 1998). However, these thresholds only apply to new stationary sources, not new development projects. Therefore,

Because the City has not adopted any emissions thresholds for CEQA purposes, this analysis relies on the County's Air Quality Guidelines (County of San Diego 2007) for the assessment of air quality impacts for the proposed project.

POLLUTANTS WITH REGIONAL EFFECTS

The County has established daily emissions thresholds for construction and operation of a proposed project in the Basin. The emissions thresholds were established based on the attainment status of the Basin with regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety, these emissions thresholds are regarded as conservative and would overstate an individual project's contribution to health risks.

Regional Thresholds for Construction and Operational Emissions

The following significance thresholds for construction and operational emissions have been established by the County:

- 75 pounds per day (lbs/day), 13.7 tons/year of VOC;
- 250 lbs/day, 40 tons/year of NO_x;
- 550 lbs/day, 100 tons/year of CO;
- 100 lbs/day, 15 tons/year of PM₁₀;

- 55 lbs/day, 10 tons/year of PM_{2.5}; and
- 250 lbs/day, 40 tons/year of sulfur oxides (SO_x).

Projects in the Basin that exceed any of these emission thresholds would be considered significant under the San Diego County's Air Quality Guidelines.

Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the project vicinity are above or below State and federal CO standards. Because ambient CO levels are below the standards in the entire Basin, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO established in the CAAQS:

- California State 1-hour CO standard of 20.0 ppm; and
- California State 8-hour CO standard of 9.0 ppm.

IMPACTS AND MITIGATION

Air pollutant emissions associated with the project would occur over the short term from construction activities (e.g., fugitive dust from site preparation and grading) and emissions from equipment exhaust. Long-term regional emissions would be associated with project-related vehicular trips and energy consumption (e.g., electricity usage) by the proposed project.

SHORT-TERM CONSTRUCTION IMPACTS

Equipment Exhaust and Related Construction Activities

Construction activities produce combustion emissions from various sources (e.g., site preparation, grading, utilities construction, surface improvements, and motor vehicles transporting the construction crew). Exhaust emissions from construction activities envisioned on site would vary daily as construction activity levels change. The use of construction equipment on site would result in localized exhaust emissions. Construction activities would be identical for the Preferred Land Use Plan with School and Land Use Plan without School.

The conceptual phasing plan for the proposed project would be divided into four phases. The phasing plan's objective is to coordinate the provision of public facilities and services with the anticipated sequence pattern of development. The conceptual phasing plan may change over the development lifetime of the proposed project in response to changing market conditions or other unforeseen conditions. The phasing of development and implementation of public facilities may be modified as long as the required public improvements are provided at the time of need. Amendments to the conceptual phasing plan are considered administrative in nature. The Development Agreement between the applicant and City would outline the nature and timing of certain public infrastructure and facility improvements.

The conceptual phases for the proposed project include the following:

- Phase 1: Fanita Commons and the easterly portion of Orchard Village, off-site and on-site improvements to Fanita Parkway and Cuyamaca Street, sewer infrastructure through the Phase 2 area, and water infrastructure in the Special Use area.
- Phase 2: Westerly portion of Orchard Village and dead-end road street improvements.
- Phase 3: Connections to and construction of the southerly half of Vineyard Village and water infrastructure through the Phase 4 area, and off-site improvements to Magnolia Avenue.
- Phase 4: Northerly half of Vineyard Village.

Table E lists the summary of construction equipment that would be used during project construction of each phase as estimated by the project applicant. A detailed equipment list is included in Appendix A.

Table E: Diesel Construction Equipment Utilized by Construction Phase

Phase No.	Phase Name	Off-Road Equipment Type	Off-Road Equipment Unit Amount	Hours Used per Day	Horsepower	Load Factor
1	Site Preparation	Rubber-Tired Dozers	1	5.1	436	0.4
		Rubber-Tired Loaders	1	5.1	249	0.36
1	Grading	Excavators	1	0.2	760	0.38
		Graders	2	0.2-2.3	275	0.41
		Off-Highway Trucks	8	0.2-8.0	300-1025	0.38
		Plate Compactors	1	2.3	554	0.43
		Rubber-Tired Dozers	6	0.2-2.3	354-600	0.4
		Scrapers	10	2.3	600	0.48
		Tractors/Loaders/Backhoes	1	0.6	249	0.37
1	Utilities	Excavators	15	0.2-3.0	85-417	0.38
		Off-Highway Trucks	18	0.1-1.1	170-450	0.38
		Tractors/Loaders/Backhoes	10	0.2-2.5	164-170	0.37
1	Surface Improvements	Dumpers/Tenders	22	0.6	515	0.38
		Graders	2	0.6	150	0.41
		Off-Highway Trucks	25	0.1-0.9	170-450	0.38
		Pavers	1	0.2	225	0.42
		Paving Equipment	1	0.9	140	0.36
		Rollers	6	0.2-0.6	36-120	0.38
		Scrapers	1	0.6	150	0.48
1	Building Construction	Cement and Mortar Mixers	1	3.0	505	0.56
		Off-Highway Trucks	8	1.0-5.0	170-300	0.38
2	Site Preparation	Rubber-Tired Dozers	1	4.8	436	0.4
		Rubber-Tired Loaders	1	4.8	249	0.36
2	Grading	Excavators	1	6.0	760	0.38
		Graders	2	6.0-7.1	275	0.41
		Off-Highway Trucks	8	6.0-8.0	300-1025	0.38
		Plate Compactors	1	7.1	554	0.43
		Rubber-Tired Dozers	6	6.0-7.1	354-600	0.4
		Scrapers	10	7.1	600	0.48
		Tractors/Loaders/Backhoes	1	1.8	249	0.37

Table E: Diesel Construction Equipment Utilized by Construction Phase

Phase No.	Phase Name	Off-Road Equipment Type	Off-Road Equipment Unit Amount	Hours Used per Day	Horse-power	Load Factor
2	Utilities	Excavators	15	0.3-4.2	85-417	0.38
		Off-Highway Trucks	18	0.1-3.1	170-450	0.38
		Tractors/Loaders/Backhoes	10	0.4-4.5	164-170	0.37
2	Surface Improvements	Dumpers/Tenders	22	0.6	515	0.38
		Graders	2	0.6	150	0.41
		Off-Highway Trucks	25	0.1-0.9	170-450	0.38
		Pavers	1	0.2	225	0.42
		Paving Equipment	1	0.9	140	0.36
		Rollers	6	0.2-0.6	36-120	0.38
		Scrapers	1	0.6	150	0.48
2	Building Construction	Cement and Mortar Mixers	1	2.0	505	0.56
		Off-Highway Trucks	8	0.8-3.0	170-300	0.38
3	Site Preparation	Rubber-Tired Dozers	1	4.2	436	0.4
		Rubber-Tired Loaders	1	4.2	249	0.36
3	Grading	Excavators	1	1.1	760	0.38
		Graders	2	1.1-2.6	275	0.41
		Off-Highway Trucks	8	1.1-8.0	300-1025	0.38
		Plate Compactors	1	2.6	554	0.43
		Rubber-Tired Dozers	6	1.1-2.6	354-600	0.4
		Scrapers	10	2.6	600	0.48
		Tractors/Loaders/Backhoes	1	0.7	249	0.37
3	Utilities	Excavators	15	0.3-5.5	85-417	0.38
		Off-Highway Trucks	18	0.1-1.9	170-450	0.38
		Tractors/Loaders/Backhoes	10	0.1-3.0	164-170	0.37
3	Surface Improvements	Dumpers/Tenders	22	0.6	515	0.38
		Graders	2	0.6	150	0.41
		Off-Highway Trucks	25	0.1-0.9	170-450	0.38
		Pavers	1	0.2	225	0.42
		Paving Equipment	1	0.9	140	0.36
		Rollers	6	0.2-0.6	36-120	0.38
		Scrapers	1	0.6	150	0.48

Table E: Diesel Construction Equipment Utilized by Construction Phase

Phase No.	Phase Name	Off-Road Equipment Type	Off-Road Equipment Unit Amount	Hours Used per Day	Horse-power	Load Factor
		Tractors/Loaders/Backhoes	1	0.6	78	0.37
3	Building Construction	Cement and Mortar Mixers	1	2.0	505	0.56
		Off-Highway Trucks	8	0.8-3.0	170-300	0.38
4	Site Preparation	Rubber-Tired Dozers	1	4.2	436	0.4
		Rubber-Tired Loaders	1	4.2	249	0.36
4	Grading	Excavators	1	1.1	760	0.38
		Graders	2	1.1-2.6	275	0.41
		Off-Highway Trucks	8	1.1-8.0	300-1025	0.38
		Plate Compactors	1	2.6	554	0.43
		Rubber-Tired Dozers	6	1.1-2.6	354-600	0.4
		Scrapers	10	2.6	600	0.48
4	Utilities	Tractors/Loaders/Backhoes	1	0.7	249	0.37
		Excavators	15	0.2-4.8	85-417	0.38
		Off-Highway Trucks	18	0.1-1.7	170-450	0.38
4	Surface Improvements	Tractors/Loaders/Backhoes	10	0.1-2.7	164-170	0.37
		Dumpers/Tenders	22	0.6	515	0.38
		Graders	2	0.6	150	0.41
		Off-Highway Trucks	25	0.1-0.9	170-450	0.38
		Pavers	1	0.2	225	0.42
		Paving Equipment	1	0.9	140	0.36
		Rollers	6	0.2-0.6	36-120	0.38
4	Building Construction	Scrapers	1	0.6	150	0.48
		Tractors/Loaders/Backhoes	1	0.6	78	0.37
4	Building Construction	Cement and Mortar Mixers	1	3.0	505	0.56
		Off-Highway Trucks	8	1.3-5.0	170-300	0.38

Source: Estimated by project applicant, and compiled by LSA (May 2020). Detailed equipment list is included in Appendix B.

Development on the proposed project site contemplates the use and reuse of on-site rock materials such as large boulders, rock cobble, decomposed granite, and processed rock. Utilization of these on-site materials would eliminate the need for importing rough or finished materials, thus reducing construction-related vehicle emissions. However, large quantities of materials need to be hauled from the aggregate plants on site to the grading area. The *Fanita Ranch Aggregate Report* (Freeman 2020), estimated the number of trips that would be anticipated to haul aggregate during project

construction. These trips were distributed among the four phases based on the total aggregate quantities by phase and assumed to be 3-mile roundtrips within the project site, which is the longest distance between the on-site aggregate plants and grading areas. In addition, based on CalEEMod defaults and the number of residential units and floor area of commercial buildings to be built during each phase, the project would generate a maximum of approximately 1,099 worker trips and 312 vendor trips per day. The hauling, worker, and vendor trip estimates are anticipated to be conservative. It is assumed that construction equipment would generally be kept on-site for the duration of construction to minimize trips transporting construction equipment. The construction phasing plan is included in Appendix B.

The most recent version of CalEEMod (Version 2016.3.2.25) was used to calculate the construction emissions. CalEEMod is designed to model construction emissions for land development projects and allows for the input of project-specific information, such as the number of equipment, hours of operations, duration of construction activities, and selection of emission control measures. Due to the model limitation on input data scale, construction activities were divided into two parts and modeled separately:

- a) All construction phases of Phase 1 and Phase 2, plus Phase 3 Site Preparation and Grading;
- b) All construction phases of Phase 3 and Phase 4, plus Phase 1 Building Construction, and Phase 2 Surface Improvements and Building Construction.

In order to determine daily emissions, a detailed phasing of the equipment listed in Table E was applied in the modeling, which results in peak daily emissions by year. The resulting year by year emissions are based upon assuming an aggressive level of construction activities with overlapping phases. For construction years 2021 through 20276, maximum daily emissions were calculated by Part a). For construction years 2027 through 2035, maximum daily emissions were calculated by Part b). Table F summarizes the maximum daily emissions for all construction years, which are from the CalEEMod output tables (see Appendix A) and represent the combination of the on- and off-site emissions.

Table F: Short-Term Regional Construction Emissions

Construction Year	Daily Regional Pollutant Emissions, lbs/day							
	VOC	NOx	CO	SOx	Fugitive PM ₁₀	Exhaust PM ₁₀	Fugitive PM _{2.5}	Exhaust PM _{2.5}
2021–2022	6.18	72.75	41.44	0.12	564.20	2.46	57.43	2.27
2022–2023	7.61	78.65	57.94	0.17	210.69	2.72	22.28	2.51
2023–2024	9.23	72.10	83.23	0.28	6,454.72	2.54	645.77	2.33
2024–2025	26.40	243.89	195.98	0.60	313.00	8.53	41.96	7.86
2025–2026	25.34	220.61	200.32	0.64	151.15	7.62	25.74	7.02
2026–2027	16.05	128.39	135.04	0.47	258.99	3.66	31.07	3.39
2027–2028	15.80	127.68	132.91	0.47	179.83	3.65	22.25	3.38
2028–2029	13.66	112.16	115.54	0.38	699.28	3.56	73.09	3.30
2029–2030	13.47	111.76	114.33	0.37	85.55	3.56	12.65	3.30
2030–2031	12.80	54.77	87.27	0.32	161.89	1.48	19.52	1.48

Table F: Short-Term Regional Construction Emissions

Construction Year	Daily Regional Pollutant Emissions, lbs/day							
	VOC	NOx	CO	SOx	Fugitive PM ₁₀	Exhaust PM ₁₀	Fugitive PM _{2.5}	Exhaust PM _{2.5}
2031–2032	8.21	48.00	78.68	0.29	15.01	0.56	4.04	0.56
2032–2033	3.94	26.23	39.32	0.15	8.47	0.26	2.28	0.25
2033–2035	3.84	26.07	38.83	0.15	8.47	0.25	2.28	0.25
Peak Daily	26.40	243.89	200.32	0.64	6,457.26		648.10	
Peak Annual (tons)	2.84	24.95	21.82	0.07	5.58		1.02	
Daily County Thresholds	75	250	550	250	100		55	
Annual County Threshold (tons)	13.7	40	100	40	15		10	
Significant Emissions?	No	No	No	No	Yes		Yes	

Source: Compiled by LSA (May 2020).

Note: **Shade** = Exceeds significance threshold

Detailed construction schedule by phase and year is provided in Appendix B.

CO = carbon monoxide

lbs/day = pounds per day

NOx = nitrogen oxides

PM₁₀ = particulate matter smaller than or equal to 10 microns in diameter

PM_{2.5} = particulate matter smaller than or equal to 2.5 microns in diameter

VOC = volatile organic compound

County = County of San Diego

SOx = sulfur oxides

As shown in Table F, peak annual emissions are below the annual thresholds for each year of construction. Also daily emissions from each year during some construction activities would be below the daily significance thresholds. However, exceedances of daily PM₁₀ would occur from 2021 to 2029, and in 2030–2031 during Phases 1 through 4, and PM_{2.5} in 2021–2022, 2023–2024, and 2028–2029 during Phases 1 through 4. The exceedance of the daily County thresholds for PM₁₀ and PM_{2.5} is primarily due to the hauling trips on 50 percent of unpaved roads during site preparation, grading, and utilities construction phases. PM₁₀ and PM_{2.5} emissions would be higher in 2023–2024 than in other years, because Phase 1 grading would involve a large number of hauling trips due to the large aggregate quantities required by Phase 1 for that initial phase, according to the *Fanita Ranch Aggregate Report* (Freeman 2020). As shown in Table G, impacts to air quality during construction would be potentially significant and mitigation measures would be required.

Construction Mitigation Measures

The following Mitigation Measures (MMs) shall be implemented as part of the proposed project to reduce air quality emissions generated by construction activities associated with the proposed project.

MM AIR-1 As required by the San Diego Air Pollution Control District Rule 55, Fugitive Dust Control, the applicant is required to implement dust-control measures during each phase of project development to reduce the amount of particulate matter entrained in the ambient air. The following measures shall be implemented by the construction contractor and included in project construction documents, including the grading plan,

which shall be reviewed and approved by the City of Santee prior to issuance of a grading permit.

- Use trackout grates or gravel beds at each egress point, wheel washing at each egress point during muddy conditions, soil binders, chemical soil stabilizers, geotextiles, mulching, or seeding.
- Use secured tarps or cargo covering, watering, or treating of transported material for outbound transport trucks.
- Remove visible roadway dust as a result of active operations, spillage from transport trucks, erosion, or trackout/carry-out at the conclusion of each workday when active operations cease or every 24 hours for continuous operations. If a street sweeper is used to remove any trackout/carry-out, only respirable particulate matter (PM₁₀)-efficient street sweepers certified to meet the most current South Coast Air Quality Management District's Rule 1186 requirements shall be used.

In addition, visual fugitive dust emissions monitoring shall be conducted during the construction phases. Visual monitoring shall be logged. If high wind conditions result in visible dust during visual monitoring, this demonstrates that the above measures are inadequate to reduce dust in accordance with the San Diego Air Pollution Control District's Rule 55, construction shall cease until high winds decrease and conditions improve.

Contract specifications shall be included in project construction documents, including the grading plan, which shall be reviewed by the City of Santee prior to issuance of a grading permit.

MM AIR-2 As a supplement to San Diego Air Pollution Control District's Rule 55, Fugitive Dust Control, the applicant shall require the contractor to implement the following dust-control measures during construction. These measures shall be included in project construction documents, including the grading plan, and be reviewed and approved by the City of Santee prior to issuance of a grading permit.

- Apply soil stabilizers to inactive construction areas.
- Quickly replace groundcover in disturbed areas that are no longer actively being graded or disturbed. If an area has been graded or disturbed and is currently inactive for 20 days or more but will be disturbed at a later time, soil stabilizers shall be applied to stabilize the soil and prevent windblown dust.
- Reduce vehicle speeds on unpaved roads.

MM AIR-3 The City of Santee shall require heavy-duty, diesel-powered construction equipment used on the project site during the construction phases be powered by California Air Resources Board-certified Tier 4 (Final) or newer engines and diesel-powered haul trucks be 2010 model year or newer that conform to 2010 U.S. Environmental Protection Agency truck standards. This requirement shall be included in the construction contractor's contract specifications and shall be included in the project construction documents, including the grading plan, which shall be reviewed and

approved by the City of Santee prior to issuance of a grading permit. This mitigation measure applies to all construction phases.

MM AIR-4 The City of Santee shall require the project construction contractor to maintain construction equipment engines in good condition and in proper tune per the manufacturer’s specification for the duration of construction. Contract specifications shall be included in project construction documents, including the grading plan, which shall be reviewed and approved by the City of Santee prior to issuance of a grading permit.

MM AIR-5 When on-site electricity is available, the City of Santee shall require the project construction contractor to rely on the electricity infrastructure surrounding the construction site rather than electrical generators powered by internal combustion engines. Contract specifications shall be included in project construction documents, including the grading plan, which shall be reviewed and approved by the City of Santee prior to issuance of a grading permit.

As shown in Table G, construction PM₁₀ and PM_{2.5} emissions from implementation of the Fanita Ranch Project would be reduced with implementation of the emission reduction measures listed in **MM AIR-1** through **AIR-5**, but not to below the County thresholds. Therefore, the impacts would remain significant and unavoidable. **MM AIR-5** is recommended as on-site electric power becomes available and it would further help reduce criteria air pollutant emissions, but not to a less than significant level. The impacts would be significant and unavoidable.

Odors from Construction Activities

Heavy-duty equipment in the project area during construction would emit odors, primarily from equipment exhaust. However, the construction activity would cease to occur after individual construction is completed. No other sources of objectionable odors have been identified for the proposed project and no mitigation measures are required.

Table G: Mitigated Short-Term Regional Construction Emissions

Construction Year	Daily Regional Pollutant Emissions, lbs/day							
	VOC	NOx	CO	SOx	Fugitive PM ₁₀	Exhaust PM ₁₀	Fugitive PM _{2.5}	Exhaust PM _{2.5}
2021–2022	1.64	13.20	47.71	0.12	121.49	0.22	12.47	0.21
2022–2023	2.62	16.60	74.54	0.17	46.15	0.32	5.06	0.31
2023–2024	7.28	43.55	95.52	0.28	1,385.64	0.87	138.85	0.82
2024–2025	10.70	61.30	230.42	0.60	75.12	1.26	11.38	1.23
2025–2026	10.98	63.28	253.78	0.64	40.21	1.32	7.85	1.29
2026–2027	10.56	70.65	156.43	0.47	66.45	1.31	7.93	1.25
2027–2028	10.33	70.13	154.28	0.47	47.51	1.31	7.84	1.25
2028–2029	8.29	55.29	136.66	0.38	154.39	1.26	16.94	1.20
2029–2030	8.10	54.90	135.46	0.37	25.69	1.26	4.85	1.20
2030–2031	6.71	43.75	121.96	0.32	39.42	0.48	5.52	0.48
2031–2032	6.47	43.40	84.86	0.29	11.73	0.40	3.23	0.40

Table G: Mitigated Short-Term Regional Construction Emissions

Construction Year	Daily Regional Pollutant Emissions, lbs/day							
	VOC	NOx	CO	SOx	Fugitive PM ₁₀	Exhaust PM ₁₀	Fugitive PM _{2.5}	Exhaust PM _{2.5}
2032–2033	3.28	24.24	41.14	0.15	6.62	0.20	1.83	0.19
2033–2035	3.18	24.08	40.65	0.15	6.62	0.19	1.83	0.19
Peak Daily	10.98	70.65	253.78	0.64	1,385.95		139.14	
Peak Annual (tons)	1.26	7.54	27.21	0.07	5.58		1.02	
Daily County Thresholds	75	250	550	250	100		55	
Annual County Thresholds (tons)	13.7	40	100	40	15		10	
Significant Emissions?	No	No	No	No	Yes		Yes	

Source: Compiled by LSA (May 2020).

Note: **Shade** = Exceeds significance threshold

CO = carbon monoxide

lbs/day = pounds per day

NOx = nitrogen oxides

PM₁₀ = particulate matter smaller than or equal to 10 microns in diameter

PM_{2.5} = particulate matter smaller than or equal to 2.5 microns in diameter

VOC = volatile organic compound

County = County of San Diego

SOx = sulfur oxides

LONG-TERM REGIONAL AIR QUALITY IMPACTS

Long-Term Project Operational Emissions

Long-term air pollutant emission impacts are those associated with stationary sources and mobile sources involving any project-related changes. The proposed project would result in net increases in both stationary- and mobile-source emissions. Mobile-source emissions of air pollutants would include project-generated vehicle trips. Area-source emissions would be associated with activities such as natural gas for heating and other sources. The stationary-source emissions would come from many sources, including the use of architectural coatings, consumer products, landscape equipment, and energy use. The following sections summarize the methodology and assumptions used in calculating emissions resulting from long-term operational activities of the project.

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from hearths and landscape equipment. Emissions associated with natural gas usage in space heating, water heating, and stoves are calculated in the building energy use module of CalEEMod, as described in the following text.

The project has been designed to prohibit wood stoves and fireplaces and to allow a total of six natural gas fire pits / fireplaces within the community areas of the villages (Project Design Feature (PDF)-AQ/GHG-1).

Landscape maintenance includes fuel combustion emissions from equipment such as lawnmowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. The emissions associated with use of landscape equipment are estimated based on CalEEMod default values for emission factors (grams per residential dwelling unit per day and grams per square foot of non-

residential building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days.

Energy

As represented in CalEEMod, energy sources include emissions associated with natural gas usage (non-hearth). Annual natural gas (non-hearth) was estimated in CalEEMod using the emissions factors for SDG&E, which would be the energy source provider for the project. For residential land uses, project-specific energy (natural gas) use data was used in place of CalEEMod default values as shown in Table H. The energy use for non-residential buildings is calculated in CalEEMod using energy intensity values (natural gas usage per square foot per year) assumptions, which were based on the California Commercial End-Use Survey database. The energy use (natural gas) rates assumed in CalEEMod are presented in Table H.

Table H: Energy Use Rates

Land Use	Title 24 Natural Gas	Non-Title 24 Natural Gas	Total Natural Gas
	kBtu per unit per year		
Residential Units	22,000	4,500	26,500
Commercial	0.98	1.09	2.07
Industrial	13.74	4.20	17.94
Parking Lots	0	0	0

Notes:

Units for Commercial Industrial and parking lot are on square feet.

Title 24 natural gas is the “regulated loads” Therms.

Non-Title 24 natural gas is the “Appliance & Cooking Therms.”

Improvements on the 2016 code for non-residential uses were only applied to those regulated loads.

On-Road Mobile Sources

Mobile sources for the project would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the proposed land uses and would primarily include future residents. The anticipated project trip generation, including the trip rates, total trips and total vehicle miles traveled (VMT), are based on the project’s Transportation Impact Analysis prepared by Linscott, Law and Greenspan, Engineers, Inc. (LLG 2020). CalEEMod was used to calculate the emissions resulting from on-road mobile sources associated with residents as well as workers, customers, and delivery vehicles traveling to and from the proposed land use types. In order to accurately depict the project’s VMT values shown in the project’s Transportation Impact Analysis the CalEEMod default values for trip rates, trip lengths, and trip types were modified. A detailed discussion of the modifications can be found in Appendix C.

Regulatory Compliance Measures and Project Design Features

Project compliance with the State regulations and standards will reduce project-generated GHG emissions. Table L summarizes the assumptions that were used in quantifying project compliance of these reductions. Each regulation includes a Reference Number, which was used in the modeling process to identify the assumptions used in modeling the reductions associated with compliance with each regulation and/or standard.

Table L: Regulation Compliance Qualification

Regulation Number	Regulatory Compliance Measure	Description	Quantification Details
Energy			
REG-GHG-1	Compliance with Title 24 Building Energy Efficiency Standards	Title 24 of the California Code of Regulations serves to enhance and regulate California’s building standards. The most recent amendments to Title 24, Part 6, referred to as the 2019 standards, became effective on January 1, 2020. CalEEMod Version 2016.3.2.25 assumes compliance with 2016 Title 24 Standards. In general, single-family homes built to the 2019 standards are anticipated to use about 7% less energy for lighting, heating, cooling ventilation, and water heating than those built to the 2016 standards, and non-residential buildings built to the 2019 standards will use an estimated 7% less energy than those built to the 2016 standards (CEC 2016)	CalEEMod default energy values were adjusted to match current Title 24, Part 6 energy efficiency requirements in the 2019 standards as shown in Table H.
REG-GHG-2	Solar-Ready Units	Per CEC’s 2016 Residential Compliance Manual (CEC 2015c), all single-family homes constructed as part of the proposed project would be designed with pre-plumbing for solar water heaters and solar rooftop renewable energy systems.	The project will comply but no reduction assumed in compliance with this regulation.
REG-GHG-3	Renewables Portfolio Standards (RPS)	Implementation of the 60% RPS mandate by 2030 would reduce greenhouse gases and regional air pollutant emissions at the location of the generating stations but does not reduce on-site air pollutant emissions.	The adjustments made in CalEEMod only relate to greenhouse gases and do not change the onsite air pollutant emissions.
Mobile Sources			
REG-AQ/ GHG-4	Low Carbon fuel Standard	The Low Carbon Fuel Standard is anticipated to achieve a 10% reduction in emissions from transportation fuels.	Accounted for in EMFAC 2016 vehicle emission factors as part of CalEEMod Version 2016 3.2.25
REG-GHG-5	State and Federal Mobile Source Reduction Strategies	<ul style="list-style-type: none"> Advanced Clean Cars (for model years 2016 and beyond). The Advanced Clean Car Standards would result in approximately 3% more reductions from passenger vehicles than the Pavley standards by 2020, 12% by 2025, 19.5% by 2030, and 33% by 2050. Truck and Bus Rule (2014 Amendment) Heavy-Duty Greenhouse Gas Phase 1 (2013), which includes the 2013 Tractor-Trailer Greenhouse Gas Regulation Amendments and Federal Fuel Efficiency Standards for Medium- and Heavy-Duty Engines and Vehicles Pavley I federal standard for model years 2012 through 2016 	Accounted for in EMFAC 2016 vehicle emission factors as part of CalEEMod Version 2016.3.2.25.
REG-GHG-6	Pre-Wiring for Electric Vehicle	<ul style="list-style-type: none"> Per CALGreen , the garages of each Low Density Residential (LDR) must be wired to have the circuit and capacity for electric vehicle (EV) chargers. However, CALGreen does not require the 	The project will comply, but no reduction was assumed for this regulation.

Table L: Regulation Compliance Qualification

Regulation Number	Regulatory Compliance Measure	Description	Quantification Details
	Charging Equipment	installation of EV chargers (CALGreen 2016b and 2016c).	

In addition, there are many project design features (PDFs) that will reduce air pollutant emissions. Table M summarizes each PDF and how the air pollutant reductions were calculated.

Table M: Project Design Features That Reduce Emissions

PDF Number	Strategy to Reduce Emissions	Description	Qualification Details
Energy Efficiency Measures			
PDF-AQ/ GHG-1	Wood-Burning Stoves and Fireplaces	No wood burning stoves or fireplaces shall be allowed in the project, and no more than six natural gas fire pits/fireplaces may be installed within the community area of the villages.	The project has been designed to prohibit wood burning stoves and fireplaces and to allow a total of six natural gas fire pits within the community areas of the villages
PDF-AQ/ GHG-2	Non-Residential Energy Improvement Standards	All non-residential land uses shall achieve a 14% greater building energy efficiency than required by the 2016 State energy efficiency standards in Title 24, Part 6 of the California Code of Regulations.	CalEEMod default energy rates reflect 2016 standards. Accordingly, Title 24 energy use was adjusted to reflect the estimated 30% increase in efficiency for non-residential buildings (CEC 2015a), and then adjusted to reflect an additional 14% increase on the calculated 2016 energy demand factors.
PDF-AQ/ GHG-3	Energy Star Appliances	All appliances (washer/dryers, refrigerators, and dishwashers) that will be installed by builders in residences and commercial businesses shall be Energy Star rated or equivalent.	The following percent improvement in energy efficiency was assumed in CalEEMod based on default values: Clothes washers: 30% Dishwashers: 15% Fan: 50% Refrigerator: 15%
PDF-AQ/ GHG-4	Efficient Outdoor Lighting	<u>All outdoor lighting shall be (light emitting diodes) LED or other high efficiency lightbulbs.</u>	<u>Conservatively, no credit was taken.</u>
PDF-AQ/ GHG-5	Cool Roofs	<u>All residential structures shall meet the U.S. Green Building Council standards for cool roofs defined as achieving a three-year solar reflectance index (SRI) of 64 for a low-sloped roof and an SRI of 32 for a high-sloped roof. Non-residential structures shall meet the U.S. Green Building Council standards for cool roofs. This is defined as achieving a three-year SRI of 64 for a low-sloped roof and 32 for a high-sloped roof.</u>	The energy efficiency factors for compliance with 2019 Title 24, Part 6 already accounts for reductions associated with cool roofs. Therefore, no additional reductions were taken for this project design feature.

Preferred Land Use Plan With School

Based on the VMT provided in the *Transportation Impact Analysis (TIA)* prepared for the proposed project (LLG 2020), under Preferred Land Use Plan with School, the project would generate approximately 243,266 miles per day, which was multiplied by 347 to convert to annual VMT¹ and incorporated into CalEEMod. Further, changes were made to CalEEMod defaults to include standard project design features, including complying with 2019 Title 24 that is 7 percent more efficient than CalEEMod default 2016 Title 24, and no hearths used on site. Since the completion of this air quality analysis, the project description has slightly changed, resulting in a reduction in school students from 1,000 to 700 students. However, to be consistent with the TIA, 1,000-students were assumed as a conservative analysis. The Open Space, Agriculture Overlay, Habitat Preserve, and Roadways were excluded from the long-term air quality analysis, because operation of these land uses would either not generate air pollutants emissions or only generate nominal levels of emissions,² except for the vehicle trips, which were incorporated in the total daily VMT. Table N shows the long-term operational emissions associated with the proposed project.

¹ The daily to annual VMT conversion factor of 347 is recommended by the California Air Resources Board (ARB) and used in developing California's Greenhouse Gas Emission Inventory. Website: https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2014/ghg_inventory_00-14_technical_support_document.pdf (accessed September 2019).

² Agricultural uses would potentially generate air pollutant emissions. The project would include orchards, vineyards, crops, and gardens in Agriculture Overlay. Except for vehicle trips, agricultural uses would only generate air pollutant emissions from operational sources by using off-road equipment. The operation details of agricultural uses are unknown. However, air pollutant emissions from off-road equipment operation are nominal. For example, according to CalEEMod, a diesel crawler tractor operating 8 hours a day would only emit 0.4 lbs/day VOC, 1.1 lbs/day NOx, 1.9 lbs/day CO, less than 0.1 lbs/day SOx, PM_{2.5}, and PM₁₀, which are nominal compared to the emissions from other land uses of the project. Therefore, agricultural emissions were not modeled.

Table N: Buildout Year Regional Operational Emissions – Preferred Land Use Plan With School

Source	Pollutant Emissions, lbs/day					
	VOC	NOx	CO	SOx	PM ₁₀	PM _{2.5}
Area ¹	169.56	22.76	251.19	0.14	2.96	2.96
Energy ²	1.90	16.54	8.89	0.10	1.32	1.32
Mobile ³	20.18	84.89	314.90	1.49	181.58	48.98
Total Project Daily Emissions	191.64	124.19	574.99	1.74	185.86	53.26
Total Project Annual Emissions (tons)	33.87	18.78	77.47	0.28	32.4	9.08
Daily County Thresholds	75	250	550	250	100	55
Annual County Threshold (tons)	13.7	40	100	40	15	10
Significant?	Yes	No	Yes	No	Yes	No

Source: Compiled by LSA (May 2020).

Note: Numbers in table may not appear to add up correctly due to rounding of all numbers.

¹ Area source includes architectural coatings, consume products, and landscaping equipment.

² Energy source includes natural gas consumption.

³ Mobile source includes project-generated vehicle trips.

CO = carbon monoxide

lbs/day = pounds per day

NOx = nitrogen oxides

PM_{2.5} = particulate matter less than or equal to 2.5 microns in size

PM₁₀ = particulate matter less than or equal to 10 microns in size

VOC = volatile organic compound

County = County of San Diego

SOx = sulfur oxides

Table N shows that the buildout year project-related emissions of VOC, CO, and PM₁₀ would exceed the County thresholds for criteria pollutants. Assuming the project would operate at the same level as the buildout year throughout the lifetime of the project, criteria air pollutant direct impacts during long-term operation would be potentially significant and mitigation measures would need to be considered necessary to reduce VOC, CO, and PM₁₀ emissions.

Land Use Plan Without School

Based on the VMT provided in the TIA prepared for the proposed project (LLG 2020), under Land Use Plan without School, the project would generate approximately 249,124 miles per day, which was multiplied by 347 to convert to annual VMT³ and incorporate into CalEEMod. Similar to Preferred Land Use Plan with School, changes were made to CalEEMod defaults to include standard project design features, including complying with 2019 Title 24 that is 7 percent more efficient than CalEEMod default 2016 Title 24, and no hearths used on site. The Open Space, Agriculture Overlay, Habitat Preserve, and Roadways were excluded from the long-term air quality analysis, because operation of these land uses would either not generate air pollutants emissions or only generate nominal levels of emissions,⁴ except for the vehicle trips, which were incorporated in the total daily VMT. Table O shows the long-term operational emissions associated with the proposed project.

Table O shows that the buildout year project-related emissions of VOC, CO, and PM₁₀ would exceed the County thresholds for criteria pollutants. Assuming the project would operate at the same level

³ The daily to annual VMT conversion factor of 347 is recommended by the California Air Resources Board and used in developing California’s Greenhouse Gas Emission Inventory. Website: https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2014/ghg_inventory_00-14_technical_support_document.pdf (accessed September 2019).

⁴ Refer to Footnote No. 2 on Page 29.

as the buildout year throughout the lifetime of the project, criteria air pollutant direct impacts during long-term operation would be potentially significant and mitigation measures would need to be considered necessary to reduce VOC, CO, and PM₁₀ emissions.

Table O: Buildout Year Regional Operational Emissions – Land Use Plan Without School

Source	Pollutant Emissions, lbs/day					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area ¹	170.67	23.79	256.35	0.15	3.07	3.07
Energy ²	1.93	16.75	8.93	0.11	1.33	1.33
Mobile ³	20.31	85.31	318.67	1.51	184.10	49.66
Total Daily Project Emissions	192.91	125.85	583.95	1.77	188.50	54.06
Total Annual Project Emissions (tons)	34.15	19.13	79.12	0.29	33.18	9.30
Daily County Thresholds	75	250	550	250	100	55
Annual County Threshold (tons)	13.7	40	100	40	15	10
Significant?	Yes	No	Yes	No	Yes	No

Source: Compiled by LSA (May 2020).

Note: Numbers in table may not appear to add up correctly due to rounding of all numbers.

¹ Area source includes architectural coatings, consume products, and landscaping equipment.

² Energy source includes natural gas consumption.

³ Mobile source includes project-generated vehicle trips.

CO = carbon monoxide

lbs/day = pounds per day

NO_x = nitrogen oxides

PM_{2.5} = particulate matter less than or equal to 2.5 microns in size

PM₁₀ = particulate matter less than or equal to 10 microns in size

VOC = volatile organic compound

County = County of San Diego SO_x = sulfur oxides

Operation Mitigation Measures

The following mitigation measures shall be implemented as part of the proposed project to reduce operational emissions of VOC, CO, and PM₁₀. MM GHG-4 from the Greenhouse Gas Emissions Analysis (LSA May 2020) will also modestly reduce operational emissions of VOC, CO, and PM₁₀ and is applied in this analysis as shown below:

MM GHG-4 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project will include all-electric homes. No natural gas shall be provided to the residential portion of the project.

MM AIR-6 Prior to recordation of the first final map in each phase, the applicant or its designee shall provide evidence to the City of Santee that the project shall implement the following Transportation Demand Management measures as identified in the *Traffic Impact Analysis* (LLG 2020):

- Improve design of development to enhance walkability and connectivity;
- Provide pedestrian network improvements;
- Provide traffic calming measures;
- Provide bike lanes in the street design;
- Provide bike parking for multifamily residential uses;

- Implement car-sharing program;
- Provide ride-sharing programs;
- Implement commute trip reduction marketing;
- Implement a school car pool program under the Preferred Land Use Plan with School; and
- Implement a Neighborhood Electric Vehicle (NEV) Network.

MM AIR-7 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project shall include a total of 1,203 240-volt Level 2 Electric Vehicle Supply Equipment (EVSE) in each garage provided for a Low Density Residential (LDR) unit, a total of 354 EVSE within the parking areas of the remaining residential units (Medium Density Residential (MDR), Village Center (VC) and Active Adult Residential (AA)), and 15 EVSE within the project's commercial parking lots.

MM AIR-8 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project applicant will utilize high-efficiency equipment and fixtures that exceed 2016 California Green Building Standards Code and 2019 Title 24, Part 6 energy conservation standards by at least 14 percent. When the standards are updated, the applicant shall use high-efficiency equipment and fixtures meeting or exceeding the latest standards.

MM AIR-9 Prior to issuance of building permits, the applicant or its designee shall provide evidence to the City of Santee that the project will comply with the San Diego Air Pollution Control District Rule 67.0.1 – Architectural Coatings and use paints no more than 50 grams of volatile organic compound (VOC) per liter of coating. The applicant shall use water-based paints when possible. In addition, to reduce the exterior area of the buildings that needs to be repainted, when possible, the applicant shall use construction materials that do not require painting or pre-painted construction materials. Furthermore, the project applicant shall use low VOC cleaning supplies to further reduce VOC emissions from area sources. This requirement shall be included in the construction contractor's contract specifications and shall be included in project construction documents, which shall be reviewed and approved by the City of Santee prior to issuance of a construction permit.

MM AIR-10 Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City that the design plans for residential structures include electrical outlets in the front and rear of the structure to facilitate use of electrical lawn and garden equipment.

Tables P and Q show the mitigated operational emissions under Preferred Land Use Plan with School and Land Use Plan without School, respectively. As shown in Tables P and Q, operational CO emissions from implementation of the Fanita Ranch Project would be reduced below the County's thresholds with implementation of the emission reduction measures listed in **MM AIR-6** through **MM AIR-10** and **MM GHG-4**, while VOC and PM₁₀ emissions would remain significant under both land use plans. Thus, the impact would be significant and unavoidable.

Table P: Mitigated Regional Operational Emissions – Preferred Land Use Plan With School

Source	Pollutant Emissions, lbs/day					
	VOC	NOx	CO	SOx	PM ₁₀	PM _{2.5}
Area ¹	120.49	2.23	184.34	<0.01	1.01	1.01
Energy ²	0.48	4.36	3.66	0.03	0.33	0.33
Mobile ³	15.35	58.43	234.19	1.10	135.07	36.49
Total Daily Project Emissions	136.32	65.02	422.19	1.14	136.40	37.83
Total Annual Project Emissions (tons)	24.38	11.91	57.14	0.19	23.91	6.59
Daily County Thresholds	75	250	550	250	100	55
Annual County Thresholds (tons)	13.7	40	100	40	15	10
Significant?	Yes	No	No	No	Yes	No

Source: Compiled by LSA (May 2020).

Note: Numbers in table may not appear to add up correctly due to rounding of all numbers.

¹ Area source includes architectural coatings, consume products, and landscaping equipment.

² Energy source includes natural gas consumption.

³ Mobile source includes project-generated vehicle trips.

CO = carbon monoxide

lbs/day = pounds per day

NOx = nitrogen oxides

PM_{2.5} = particulate matter less than or equal to 2.5 microns in size

PM₁₀ = particulate matter less than or equal to 10 microns in size

VOC = volatile organic compound

County = County of San Diego

SOx = sulfur oxides

Table Q: Mitigated Regional Operational Emissions – Land Use Plan Without School

Source	Pollutant Emissions, lbs/day					
	VOC	NOx	CO	SOx	PM ₁₀	PM _{2.5}
Area ¹	121.08	2.27	187.97	<0.01	1.03	1.03
Energy ²	0.47	4.24	3.56	0.03	0.32	0.32
Mobile ³	15.82	60.19	242.69	1.15	140.22	37.88
Total Project Emissions	137.37	66.70	434.21	1.18	141.57	39.23
Annual Total Project Emissions (tons)	24.59	12.35	59.28	0.21	25.05	6.89
Daily County Thresholds	75	250	550	250	100	55
Annual County Thresholds (tons)	13.7	40	100	40	15	10
Significant?	Yes	No	No	No	Yes	No

Source: Compiled by LSA (May 2020).

Note: Numbers in table may not appear to add up correctly due to rounding of all numbers.

¹ Area source includes architectural coatings, consume products, and landscaping equipment.

² Energy source includes natural gas consumption.

³ Mobile source includes project-generated vehicle trips.

CO = carbon monoxide

lbs/day = pounds per day

NOx = nitrogen oxides

PM_{2.5} = particulate matter less than or equal to 2.5 microns in size

PM₁₀ = particulate matter less than or equal to 10 microns in size

VOC = volatile organic compound

County = County of San Diego

SOx = sulfur oxides

Odors from Operational Activities

SDAPCD Rule 51 (SDAPCD 1976) regarding public nuisance and California Health and Safety Code Division 26, Part 4, Chapter 3, Section 41700, prohibits the emission of any material that causes

nuisance to a considerable number of persons or endangers the comfort, health, or safety of the public. The agricultural uses of the project could release localized odors; however, in general, localized odors would be confined mainly to the Agriculture Overlay and would readily dissipate.

In addition, the PDMWD Ray Stoyer Water Recycling Facility (WRF) located on Fanita Parkway west of the project site would generate odors that would potentially affect people on-site. The existing Conditional Use Permit for the PDMWD Ray Stoyer WRF contains required measures that would be implemented once the proposed project is constructed to reduce potential odor impacts. These measures include the use of an odor scrubber to limit hydrogen sulfide to 6 to 10 ppm at peak operations, the replacement of the existing primary clarifier system with a chemical scrubbing system, the covering of all zones of the biological nutrient removal basins and the installation of additional chemical scrubbers, and the installation of an additional sulfur dioxide neutralization system at the diechlorination building.

The Sycamore Landfill is located approximately 1.7 miles from the closest residential use of the project site. Odors generated at the landfill would readily dissipate and not affect the on-site residences.

Therefore, objectionable odors affecting a substantial number of people would not occur as a result of the proposed project.

Impacts to Sensitive Receptors

Sensitive receptors are defined as schools, hospitals, resident care facilities, day-care centers, or other facilities that may house individuals with health conditions that would be adversely affected by changes in air quality (County of San Diego 2007). However, for the purposes of a CEQA analysis in San Diego County, the definition of sensitive receptors also includes residents. The two primary emissions of concern regarding health effects for land development projects are CO and toxic air contaminants (TACs).

Carbon Monoxide Hot Spots

Areas with high vehicle density, such as congested intersections and parking garages, have the potential to create high concentrations of CO, known as CO hot spots. An air quality pollutant concentration impact is considered significant if CO emissions create a hot spot where either the California 1-hour standard of 20 ppm or the federal and state 8-hour standard of 9.0 ppm is exceeded. This typically occurs at severely congested intersections (level of service [LOS] E or worse).

Intersections expected to operate at LOS E or below in year 2035 as projected by the TIA (LLG 2020) were analyzed as potential CO hot spots. CALINE4 was used to model the CO hot spots at these intersections. Table R displays the estimated CO concentrations at the nearest receptor from the affected intersections. The nearest receptor was assumed to be located at the corner of the intersection. The estimated worst-case 1-hour CO concentration would be 2.7 ppm under both With Project Preferred Land Use Plan with School and With Project Land Use Plan without School. This would not exceed the California 1-hour standard of 20 ppm or the federal 1-hour standard of 35 ppm. Using an urban persistence factor of 0.7 (for an urban area) (EPA 1992) to convert from 1-hour

concentration to 8-hour concentration, the maximum cumulative 8-hour CO concentration at the intersection would be 1.9 ppm under both With Project Preferred Land Use Plan with School and With Project Land Use Plan without School, which is below the 9 ppm California and federal 8-hour standard. Therefore, the project is not anticipated to contribute substantially to an existing or projected air quality violation of CO and impacts would be less than significant.

Table R: Estimated Carbon Monoxide Concentrations

Intersection	Peak Hour	1-Hour CO Concentration (ppm) ¹			8-Hour CO Concentration (ppm) ¹			Impact?
		2035 Without Project	2035 With Project (With School)	2035 With Project (Without School)	2035 Without Project	2035 With Project (With School)	2035 With Project (Without School)	
Princess Joann Road and Cuyamaca Street	AM	1.7	1.8	1.7	1.2	1.3	1.2	No
	PM	1.7	1.8	1.8	1.2	1.3	1.3	No
Ganley Road and Fanita Parkway	AM	1.7	1.8	1.8	1.2	1.3	1.3	No
	PM	1.7	1.9	1.8	1.2	1.4	1.4	No
Woodglen Vista Drive and Cuyamaca Street	AM	1.7	1.9	1.9	1.2	1.4	1.4	No
	PM	1.8	1.9	1.9	1.3	1.4	1.4	No
El Nopal and Cuyamaca Street	AM	1.9	2.0	1.9	1.4	1.5	1.4	No
	PM	1.9	2.0	2.0	1.4	1.5	1.5	No
El Nopal and Magnolia Avenue	AM	1.9	2.0	1.9	1.4	1.5	1.4	No
	PM	1.9	2.0	2.0	1.4	1.5	1.5	No
El Nopal and Los Ranchitos Road	AM	1.8	1.8	1.8	1.3	1.3	1.3	No
	PM	1.8	1.8	1.8	1.3	1.3	1.3	No
Lake Canyon Road and Fanita Parkway	AM	1.7	1.9	1.8	1.2	1.4	1.3	No
	PM	1.8	1.9	1.9	1.3	1.4	1.4	No
Beck Drive and Cuyamaca Street	AM	1.9	2.0	2.0	1.4	1.5	1.5	No
	PM	1.9	2.0	2.0	1.4	1.5	1.5	No
Mast Boulevard and SR-52 WB Ramps	AM	2.6	2.7	2.7	1.9	1.9	1.9	No
	PM	2.1	2.2	2.2	1.5	1.6	1.6	No
Mast Boulevard and West Hills Parkway	AM	2.2	2.3	2.2	1.6	1.7	1.6	No
	PM	2.3	2.4	2.4	1.7	1.7	1.7	No
Mast Boulevard and Fanita Parkway	AM	2.1	2.3	2.2	1.5	1.7	1.6	No
	PM	2.0	2.1	2.1	1.5	1.5	1.5	No

Table R: Estimated Carbon Monoxide Concentrations

Intersection	Peak Hour	1-Hour CO Concentration (ppm) ¹			8-Hour CO Concentration (ppm) ¹			Impact?
		2035 Without Project	2035 With Project (With School)	2035 With Project (Without School)	2035 Without Project	2035 With Project (With School)	2035 With Project (Without School)	
Mast Boulevard and Cuyamaca Street	AM	2.0	2.1	2.1	1.5	1.5	1.5	No
	PM	2.2	2.2	2.2	1.6	1.6	1.6	No
Riverford Road and SR-67 SB Ramps	AM	2.1	2.1	2.1	1.5	1.5	1.5	No
	PM	2.1	2.1	2.1	1.5	1.5	1.5	No
Riverford Road and Woodside Avenue	AM	2.1	2.1	2.1	1.5	1.5	1.5	No
	PM	2.0	2.1	2.1	1.5	1.5	1.5	No
Mission Gorge Road and West Hills Parkway	AM	2.3	2.4	2.3	1.7	1.7	1.7	No
	PM	2.0	2.0	2.0	1.5	1.5	1.5	No
Mission Gorge Road and Carlton Hills Boulevard	AM	2.3	2.5	2.5	1.7	1.8	1.8	No
	PM	2.2	2.3	2.3	1.6	1.7	1.7	No
Mission Gorge Road and Town Center Parkway	AM	1.9	1.9	1.9	1.4	1.4	1.4	No
	PM	2.1	2.2	2.2	1.5	1.6	1.6	No
Mission Gorge Road and Cuyamaca Street	AM	2.1	2.1	2.1	1.5	1.5	1.5	No
	PM	2.3	2.4	2.4	1.7	1.7	1.7	No
Mission Gorge Road and Cottonwood Avenue	AM	1.8	1.8	1.8	1.3	1.3	1.3	No
	PM	2.0	2.0	2.0	1.5	1.5	1.5	No
Mission Gorge Road and Magnolia Avenue	AM	2.3	2.3	2.3	1.7	1.7	1.7	No
	PM	2.4	2.4	2.4	1.7	1.7	1.7	No
Woodside Avenue N and SR-67 SB Off-Ramp	AM	1.9	1.9	1.9	1.4	1.4	1.4	No
	PM	2.1	2.1	2.1	1.5	1.5	1.5	No
Fanita Drive and SR-52 WB Off-Ramp	AM	1.8	1.8	1.8	1.3	1.3	1.3	No
	PM	1.8	1.8	1.8	1.3	1.3	1.3	No
Buena Vista Avenue and Cuyamaca Street	AM	2.0	2.0	2.0	1.5	1.5	1.5	No
	PM	2.2	2.2	2.3	1.6	1.6	1.7	No

Table R: Estimated Carbon Monoxide Concentrations

Intersection	Peak Hour	1-Hour CO Concentration (ppm) ¹			8-Hour CO Concentration (ppm) ¹			Impact?
		2035 Without Project	2035 With Project (With School)	2035 With Project (Without School)	2035 Without Project	2035 With Project (With School)	2035 With Project (Without School)	
Prospect Avenue and Fanita Drive	AM	1.9	1.9	1.9	1.4	1.4	1.4	No
	PM	1.8	1.8	1.8	1.3	1.3	1.3	No

Source: CALINE4 using EMFAC2017 emission factors. See the Appendix D for model output sheets.

Note: ¹ Modeling assumptions: 1-hour CO concentrations were calculated using the worst-case wind angle scenario in the CALINE4 model. CO emission factors were generated using the EMFAC2017 model, using the CO emission factor associated with Year 2035 for the total vehicle mix during conditions in January at a temperature of 40 degrees Fahrenheit. An ambient 1-hour CO concentration of 1.5 ppm and an ambient 8-hour CO concentration of 1.1 ppm were used to reflect ambient conditions. The 8-hour CO concentration is based on a persistence factor of 0.7 for urban uses (Caltrans 1997).

SR-67 = State Route 67
SR-52 = State Route 52
SB = southbound

WB = westbound
ppm = parts per million
CO = carbon monoxide

Toxic Air Contaminants

PDMWD’s Roy Stoyer WRF is located on Fanita Parkway to the west of the project site. The facility treats sewage and the process includes the use of chlorine and sulfur dioxide gas, which would potentially generate TACs emissions. However, both chemicals are housed in separate buildings on the property. The Risk Management Plan for the Ray Stoyer Water Recycling Facility lays out a comprehensive plan for the protection of public health and relates the chemicals of concern associated with the facility. Therefore, it is not analyzed in this report.

Effects of TACs from construction activities were evaluated in a Health Risk Assessment (HRA) (LSA 2019). The greatest potential for TAC emissions during construction activities would be related to emissions of diesel particulate matter (DPM) associated with heavy equipment operations during site preparation, grading, and utilities construction activities. In addition, while incidental amounts of substances containing TACs, such as oils, solvents, and paints could be used, these products would comply with all applicable SDAPCD rules for their manufacture and use and would not contribute substantially to overall health risks from TACs. According to SDAPCD methodology (SDAPCD 2019), health effects from carcinogenic TACs are usually described in terms of individual cancer risk. Individual cancer risk is the likelihood that a person exposed to concentrations of TACs over a 70-year lifetime will contract cancer, based on the use of standard risk-assessment methodology.

Construction-related activities would result in short-term emissions of DPM from the off-road heavy-duty diesel equipment exhaust. The greatest potential for DPM emissions associated with construction would be during the site preparation and grading activities. Phase 1 and Phase 2 construction was analyzed as the worst-case, because the later construction phases would be further away from sensitive receptors, outside the 1,000 feet screening distance for potential impacts, and emit lower levels of DPM. The HRA concluded that cancer risk levels at sensitive receptors located on site in the Village Center located in Fanita Commons would exceed the SDAPCD

threshold during Phase 1 and Phase 2 construction of the project and the impact would be potentially significant. The non-cancer risk levels at on-site sensitive receptors and the cancer and non-cancer risk levels at off-site sensitive receptors would not exceed the SDAPCD threshold and the impact would be less than significant. The HRA also analyzed off-site sensitive receptors located in close vicinity to the roadways that would be constructed as part of the project and concluded that the health risk levels would not exceed the cancer and non-cancer risk thresholds. Table S shows the carcinogenic and chronic inhalation health risks from project-related construction activities at the on-site and off-site residences.

Table S: Health Risk Levels for On-Site and Off-Site Residences

Receptors	Maximum Cancer Risk (Risk in One Million)	Maximum Non-Cancer Chronic Risk (Hazard Index)
On-Site	135.05	0.05239
Off-Site	31.82	0.01489
SDAPCD Threshold	10	1
Significant?	Yes	No

Source: Compiled by LSA (July 2019). See Health Risk Assessment (LSA 2019) for figures and calculations.
SDAPCD = San Diego Air Pollution Control District

As discussed in the HRA, **MM AIR-3** and **MM AIR-4** would be required to reduce on-site exhaust PM₁₀ emissions. In addition, the following mitigation measure would be required to reduce residential cancer risks during Phase 1 and Phase 2 construction:

MM AIR-11 The City of Santee shall require the applicant to complete Phase 1 earth moving and asphalt paving activities within 300 feet from the southwestern corner of the Village Center in Fanita Commons before any residents occupy the Village Center. The applicant shall also integrate the Phase 2 grading and utilities activities within 500 feet from the southwestern corner of the Village Center into Phase 1 so that activities are complete prior to occupation of the Fanita Commons Village Center.

Table T shows the mitigated project construction residential cancer risks. As shown in Table T, with the implementation of **MM AIR-11**, the cancer risk at on-site residences located in the Village Center and off-site residences in close proximity to the roadways would not exceed the 10 in one million threshold and the impact would be less than significant.

Table T: Mitigated Health Risk Levels for On-Site and Off-Site Residents

Receptors	Maximum Cancer Risk (Risk in One Million)
On-Site	9.96
Off-Site	2.84
SDAPCD Threshold	10
Significant?	No

Source: Compiled by LSA (July 2019). See Health Risk Assessment (LSA 2019) for figures and calculations.
SDAPCD = San Diego Air Pollution Control District

The commercial component of the Fanita Ranch Project does not include specific uses or tenants but does allow gasoline dispensing stations with a throughput of less than 3.6 million gallons per year that could emit TACs. Therefore, the following mitigation measure would be required to ensure impacts are less than significant:

MM AIR-12 The City of Santee shall require the applicant to avoid siting new on-site toxic air contaminant sources in close vicinity of residences and schools. Gasoline dispensing facilities with a throughput of less than 3.6 million gallons per year must have the gasoline dispensers at least 50 feet from the nearest residential land use, day care center, or school. In addition, gasoline dispensing facilities with a throughput of 3.6 million gallons per year or more, distribution centers, and dry cleaning operations are prohibited within the project.

With the implementation of mitigation measure **MM AIR-12**, the impacts from on-site TAC-emitting facilities would be reduced to less than significant.

Assessment of Project Operational Health Impacts

Although the project is expected to exceed the SDAPCD's numeric regional mass daily emission thresholds for VOC and PM₁₀, this does not in itself constitute a significant health impact to the population adjacent to the project site and within the Basin.

The SDAPCD's numeric regional thresholds are based in part on Section 180 (e) of the CAA and are intended to provide a means of consistency in significance determination within the environmental review process. Notwithstanding, simply exceeding the SDAPCD's numeric regional mass daily thresholds does not constitute a particular health impact to an individual nearby. The reason for this is that the mass daily thresholds are in pounds per day emitted into the air whereas health effects are determined based on the concentration of emissions in the air at a particular location (e.g., parts per million by volume of air or micrograms per cubic meter of air). State and federal ambient air quality standards were developed to protect the most susceptible population groups from adverse health effects and were established in terms of parts per million or micrograms per cubic meter for the applicable emissions.

SDAPCD does not require localized air quality impact analysis and has not established localized significance thresholds. As discussed above, the project's HRA analyzed the health impacts on on-site and off-site sensitive receptors from construction activities. Compared to construction, operation of the project would emit much fewer criteria air pollutants and the pollutants are less toxic than the DPM emitted from off-road construction equipment. Moreover, the pollutants would be dispersed over the entire project site, which is much larger than the Phase 1 and Phase 2 construction area analyzed in the HRA. Further, the proposed project would not accommodate land uses that would generate a large number of heavy truck trips. Residential and commercial land uses are not typical generators of substantial DPM. Therefore, the on-site and off-site sensitive receptors would be subject to lower health risks than during project construction. Therefore, operation of the project would not be expected to result in any basin-wide increase in health effects.

As noted in the Brief of Amicus Curiae filed by the South Coast Air Quality Management District in *Sierra Club v. County of Fresno* (2018) 6 al.5th 502 (SCAQMD 2015), the SCAQMD has acknowledged that, for criteria pollutants, it would be extremely difficult, if not impossible to quantify health impacts for various reasons including modeling limitations as well as where in the atmosphere air pollutants interact and form. Furthermore, as noted in the Brief of Amicus Curiae by the San Joaquin Valley Unified Air Pollution Control District (SJVAPCD 2015) in the *Sierra Club* litigation, currently available modeling tools are not equipped to provide a meaningful analysis of the correlation between an individual development project's air pollutant emissions and specific human health impacts (SJVAPCD 2015). The SJVAPCD explained that "[r]unning the photochemical grid model used for predicting ozone attainment with emissions solely from one project would thus not be likely to yield valid information given the relative scale involved" (SJVAPCD 2015). O₃ is not directly emitted into the air, but is instead formed as ozone precursors undergo complex chemical reactions through sunlight exposure (SJVAPCD 2015).

In fact, the SJVAPCD indicated that even a project with criteria pollutant emissions that exceed a CEQA threshold does not necessarily cause localized human health impacts because, even when faced with relatively high emissions, the SJVAPCD cannot determine "whether and to what extent emissions from an individual project directly impact human health in a particular area" (SJVAPCD 2015). On that point, the SCAQMD reiterated that "an agency should not be required to perform analyses that do not produce reliable or meaningful results" (SCAQMD 2015).

Additionally, the SCAQMD acknowledges that health effects quantification from ozone, as an example is correlated with the increases in ambient level of ozone in the air (concentration) that an individual person breathes. The SCAQMD goes on to state that it would take a large amount of additional emissions to cause a modeled increase in ambient ozone levels over the entire region. The SCAQMD states that based on its own modeling in the 2012 AQMP, a reduction of 432 tons/864,000 pounds per day of NO_x and a reduction of 187 tons/374,000 pounds per day of VOCs would reduce ozone levels at highest monitored site by only 9 parts per billion. As such, the SCAQMD concludes that it is not currently possible to accurately quantify ozone-related health impacts caused by NO_x or VOC emissions from relatively small projects (defined as projects with regional scope) due to photochemistry and regional model limitations (SCAQMD 2015).

To underscore this point, the SCAQMD goes on to state that it has only been able to correlate potential health outcomes for very large emissions sources as part of its rulemaking activity. Specifically, 6,620 pounds per day of NO_x and 89,180 pounds per day of VOC were expected to result in approximately 20 premature deaths per year and 89,947 school absences due to ozone.

The proposed project does not generate anywhere near 6,620 pounds per day of NO_x or 89,190 pounds per day of VOC emissions. As shown in Table G, with implementation of mitigation measures, the project would generate a maximum of 70.65 pounds per day of NO_x during construction (1.1 percent of 6,620 pounds per day) and, as shown in Tables P and Q, during operations, the project would generate 65.02 or 66.70 pounds per day of NO_x, under Preferred Land Use Plan with School and Land Use Plan without School, respectively (both are 1.0 percent of 6,620 pounds per day). The project would also generate a maximum of 10.98 pounds per day of VOC emissions during construction and 136.32 or 137.37 pounds per day of VOC emissions during

operations under Preferred Land Use Plan with School and Land Use Plan without School, respectively (both are 0.15 percent of 89,190 pounds per day).

Therefore, the project's emissions are not sufficiently high to use a regional modeling program to correlate health effects on a basin-wide level. Further, SJVAPCD acknowledges the same: "... the Air District is simply not equipped to analyze and to what extent the criteria pollutant emissions of an individual CEQA project directly impact human health in a particular area ... even for projects with relatively high levels of emissions of criteria pollutant precursor emissions" (see Page 8 of SJVAPCD Brief of Amicus Curiae).

The SCAQMD Brief of Amicus Curiae and SJVAPCD Brief of Amicus Curiae are incorporated by reference into this report and into the environmental documentation for this project, including all references therein.

Unfortunately, current scientific, technological, and modeling limitations prevent the relation of expected adverse air quality impacts to likely health consequences. For this reason, this section explains in meaningful detail why it is not feasible to provide such an analysis.

AIR QUALITY MANAGEMENT PLAN CONSISTENCY

The California SIP is the document that sets forth the State's strategies for attaining the NAAQS. The SDAPCD is the agency responsible for preparing and implementing the portion of the California SIP applicable to the Basin. Since the Basin is designated as in basic nonattainment of the NAAQS and in serious nonattainment of the more stringent CAAQS for O₃, the SDAPCD's RAQS outlines the plans and control measures designed to attain the AAQS for O₃. The California SIP and the SDAPCD's RAQS were developed in conjunction with each other to reduce regional O₃ emissions. The 2016 RAQS revision is the most recent RAQS prepared by the SDAPCD that fulfills all statutory requirements.

The SDAPCD relies on information from the ARB and San Diego Association of Governments (SANDAG), including projected growth and mobile, area, and all other source emissions, in order to predict future emissions and develop appropriate strategies for the reduction of source emissions through regulatory controls. The ARB mobile-source emission projections and SANDAG growth projections are based on population and vehicle trends and land use plans developed by the incorporated cities and the County of San Diego. As such, projects that propose development that is consistent with the growth anticipated by SANDAG would be consistent with the RAQS and the SIP.

The City of Santee General Plan was adopted by the Santee City Council on August 27, 2003. The City also adopted a General Plan Housing Element Amendment on April 10, 2013. Development consistent with the City's 2003 General Plan and/or 2013 General Plan Housing Element Amendment would be consistent with the RAQS and SIP. The project site is zoned and designated as Planned Development in the 2003 General Plan. The proposed project is a Specific Plan, which is inconsistent with the zoning and General Plan designation. The 2013 General Plan Housing Element Amendment projected approximately 1,380 single-family dwelling units and 15 live/work units within the Fanita Planned Development area, while the proposed project proposes 2,949 housing units under Preferred Land Use Plan with School or 3,008 housing units under Land Use Plan without School together with the development of other types of land uses. The proposed project would

exceed the 2013 General Plan Housing Element Amendment projections. Thus, the proposed project would exceed the 2013 General Plan Housing Element Amendment growth assumptions assumed for the site and would need a General Plan Amendment. The project is not consistent with the RAQS and SIP, and the impacts would therefore be significant.

Moreover, if a project's emissions exceed the SDAPCD regional thresholds for VOC, NO_x, PM₁₀, or PM_{2.5}, it follows that the emissions could cumulatively contribute to an exceedance of a pollutant for which the Basin is in nonattainment (ozone, nitrogen dioxide, PM₁₀, and PM_{2.5}) at a monitoring station in the Basin. An exceedance of a nonattainment pollutant at a monitoring station would not be consistent with the goals of the RAQS—to achieve attainment of pollutants. As discussed above, with implementation of all feasible mitigation measures, the criteria air pollutants emissions would be reduced; however, the project would still exceed the regional significance threshold for PM₁₀ and PM_{2.5} during project construction and would exceed the thresholds for VOC and PM₁₀ during project operation. Therefore, the project is considered inconsistent with the RAQS based upon the quantitative analysis of mass emissions the project emits. The impacts would be significant and unavoidable.

CUMULATIVE IMPACTS

The cumulative impacts analysis is based on projections in the RAQS. As described in the consistency analysis presented above, the proposed project is inconsistent with the growth assumptions in the City's General Plan and the RAQS. Even with implementation of all feasible mitigation measures, the project would exceed the regional significance threshold for PM₁₀ and PM_{2.5} during project construction, and would exceed the thresholds for VOC and PM₁₀ during project operation; therefore, the project would increase the frequency or severity of an air quality standards violation and cause a new violation. Therefore, the proposed project would result in a significant and unavoidable long-term cumulative impact.

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APPENDIX A

CONSTRUCTION PHASING PLAN AND EQUIPMENT LIST

HomeFed Corporation
Fanita Ranch
Anticipated Equipment Hours - Land Development

												Project Phase														
				Phase 1		Phase 2		Phase 3		Phase 4		Southwest (Phase 2)		Northwest (Phase 1)		East Village (Phase 3&4)		Fanita Pkwy (Phase 1)		Cuyamaca (Phase 1)		Magnolia (Phase 1)		Total Equip. Hours	Crew Duration	
Scope	Equipment	HorsePower	Equip. Count	Days	HR/Day	Days	HR/Day	Days	HR/Day	Days	HR/Day	Qty	Total Hours	Qty	Total Hours	Qty	Total Hours	Qty	Total Hours	Qty	Total Hours	Qty	Total Hours		Hours	Days
Grading																										
Clear & Grub												Site Preparation														
	CAT D9 Dozer	436	1	40	5.06	40	4.80	40	4.17	40	4.17	240 AC	192	185 AC	417 AC	34 AC	21 AC	13 AC					728	728	91.00	
	CAT 950 Loader	249	1	40	5.06	40	4.80	40	4.17	40	4.17		192		148	334	27	17	10				728			
Mass Excavation - Scraper Spread												Grading														
	CAT 657G Scraper	600	10	360	2.26	320	7.07	480	2.60	480	2.60	13,017,240 CY	22,639	3,746,500 CY	14,367,629 CY	287,607 CY	300,443 CY	343,602 CY					55,762	5,576	697.02	
	4,000 Gallon Water Truck	300	3	360	2.26	320	7.07	480	2.60	480	2.60		6,792		1,955	7,496	150	157	179				16,729			
	834H Rubber Tire Compactor	554	1	360	2.26	320	7.07	480	2.60	480	2.60		2,264		652	2,499	50	52	60				5,576			
	CAT D10 Dozer	600	1	360	2.26	320	7.07	480	2.60	480	2.60		2,264		652	2,499	50	52	60				5,576			
	CAT D9 Dozer	436	1	360	2.26	320	7.07	480	2.60	480	2.60		2,264		652	2,499	50	52	60				5,576			
	CAT D8 Dozer	354	1	360	2.26	320	7.07	480	2.60	480	2.60		2,264		652	2,499	50	52	60				5,576			
	CAT 16H Motor Grader	275	1	360	2.26	320	7.07	480	2.60	480	2.60		2,264		652	2,499	50	52	60				5,576			
	CAT 950 Loader	249	1	360	0.56	320	1.77	480	0.65	480	0.65		566		163	625	13	13	15				1,394			
Mass Excavation - Rock Spread												2,633,374 CY														
	Hitachi 1200 Excavator	760	1	360	0.22	320	5.98	480	1.05	480	1.05		1,915	111,000 CY	81	1,004	0	0	0				3,000	3,000	374.99	
	CAT 777 Rock Truck	1025	3	360	8.00	320	8.00	480	8.00	480	8.00		5,746		242	3,012	0	0	0				9,000			
	4,000 Gallon Water Truck	300	2	360	0.22	320	5.98	480	1.05	480	1.05		3,830		161	2,008	0	0	0				6,000			
	CAT D10 Dozer	600	1	360	0.22	320	5.98	480	1.05	480	1.05		1,915		81	1,004	0	0	0				3,000			
	CAT D9 Dozer	436	2	360	0.22	320	5.98	480	1.05	480	1.05		3,830		161	2,008	0	0	0				6,000			
	CAT 16H Motor Grader	275	1	360	0.22	320	5.98	480	1.05	480	1.05		1,915		81	1,004	0	0	0				3,000			
Storm Drain																										
Mainline												Utilities														
	CAT 349 Excavator	417	1	320	2.01	240	2.39	280	1.61	320	1.41	28,660 LF	573	20,120 LF	45,160 LF	7,582 LF	2,568 LF	1,840 LF					2,119	2,119	264.83	
	CAT 330 Excavator	235	1	320	1.00	240	1.19	280	0.81	320	0.71		287		201	452	76	26	18				1,059			
	CAT 950F Loader	170	1	320	1.51	240	1.79	280	1.21	320	1.06		430		302	677	114	39	28				1,589			
	Ford 450 Diesel Crew truck	450	1	320	0.30	240	0.36	280	0.24	320	0.21		86		60	135	23	8	6				318			
	Ford F700 2,000 Gal Water Truck	170	1	320	0.70	240	0.84	280	0.56	320	0.49		201		141	316	53	18	13				742			
Structures												223 EA														
	CAT 330 Excavator	235	1	320	3.01	240	3.72	280	2.40	320	2.10		892	138 EA	552	1,344	260	96	56				3,200	3,200	400.00	
	CAT 950F Loader	170	1	320	1.51	240	1.86	280	1.20	320	1.05		446		276	672	130	48	28				1,600			
	Ford 450 Diesel Crew truck	450	1	320	0.45	240	0.56	280	0.36	320	0.32		134		83	202	39	14	8				480			
	Ford F700 2,000 Gal Water Truck	170	1	320	1.05	240	1.30	280	0.84	320	0.74		312		193	470	91	34	20				1,120			
Sewer																										
Mainline												31,400 LF														
	CAT 349 Excavator	417	1	320	1.07	240	2.09	280	1.79	320	1.57		502	18,600 LF	298	1,005	0	0	46				1,850	1,850	231.30	
	CAT 330 Excavator	235	1	320	0.54	240	1.05	280	0.90	320	0.79		251		149	502	0	0	23				925			
	CAT 950F Loader	170	1	320	0.80	240	1.57	280	1.35	320	1.18		377		223	754	0	0	34				1,388			
	Ford 450 Diesel Crew truck	450	1	320	0.16	240	0.31	280	0.27	320	0.24		75		45	151	0	0	7				278			
	Ford F700 2,000 Gal Water Truck	170	1	320	0.38	240	0.73	280	0.63	320	0.55		176		104	352	0	0	16				648			
Structures												121 EA														
	CAT 330 Excavator	235	1	320	1.03	240	2.02	280	1.73	320	1.51		484	72 EA	288	968	0	0	40				1,780	1,780	222.50	
	CAT 950F Loader	170	1	320	0.51	240	1.01	280	0.86	320	0.76		242		144	484	0	0	20				890			
	Ford 450 Diesel Crew truck	450	1	320	0.15	240	0.30	280	0.26	320	0.23		73		43	145	0	0	6				267			
	Ford F700 2,000 Gal Water Truck	170	1	320	0.36	240	0.71	280	0.61	320	0.53		169		101	339	0	0	14				623			
Services												884 EA														
	CAT 330 Excavator	235	1	320	2.91	240	3.68	280	2.03	320	1.77		884	931 EA	931	1,135	0	0	0				2,950	2,950	368.75	
	CAT 950F Loader	170	1	320	1.45	240	1.84	280	1.01	320	0.89		442		466	568	0	0	0				1,475			
	Ford 450 Diesel Crew truck	450	1	320	0.44	240	0.55	280	0.30	320	0.27		133		140	170	0	0	0				443			
	Ford F700 2,000 Gal Water Truck	170	1	320	1.02	240	1.29	280	0.71	320	0.62		309		326	397	0	0	0				1,033			

HomeFed Corporation

Fanita Ranch

Anticipated Equipment Hours - Vertical Construction

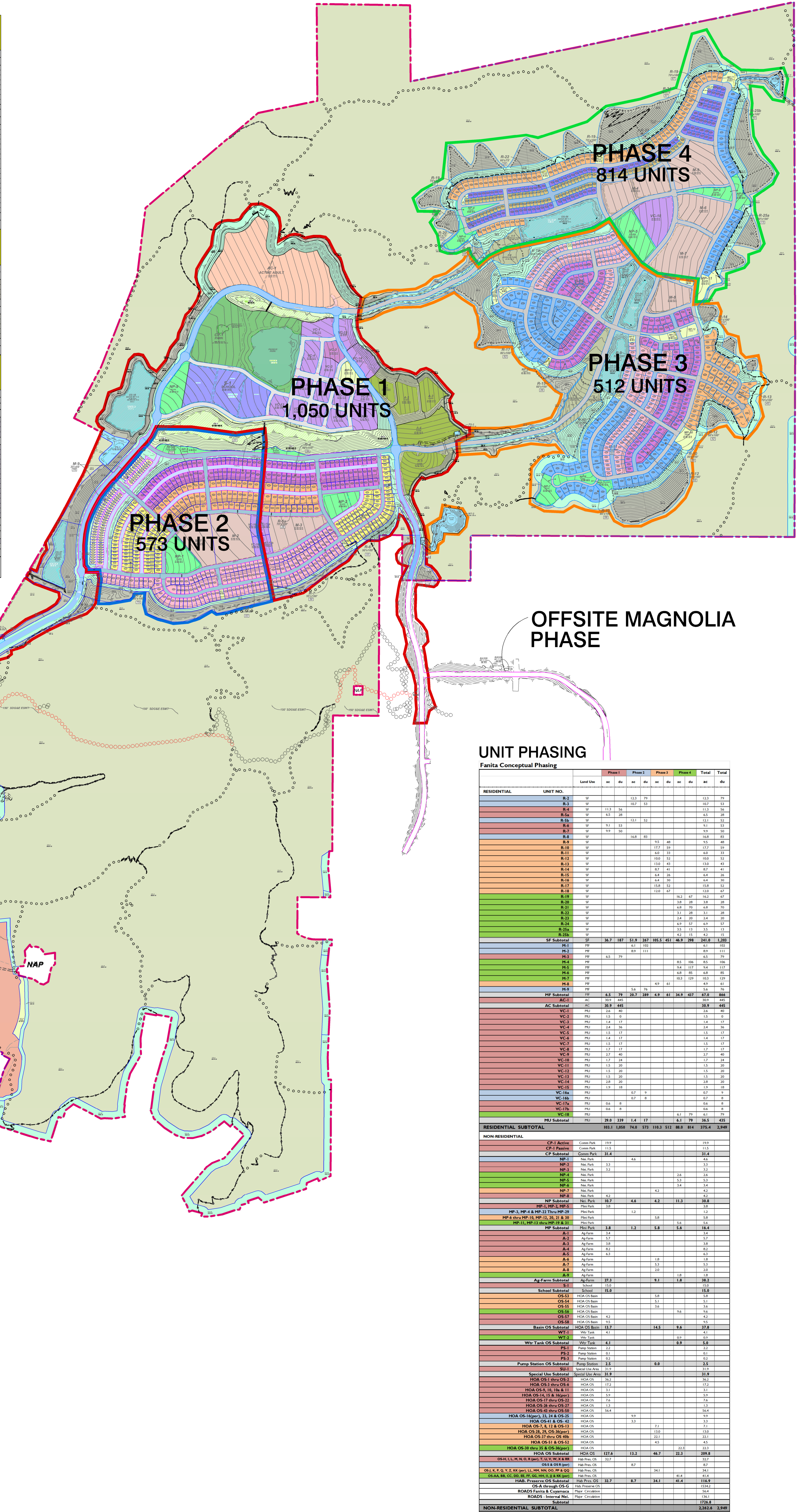
Scope	Equipment	Horsepower	Per Dwelling Equip. Count	Total Hours	Project Phase												Total Equip. Hours
					1		2		3		4						
					Days	Hours/Day	Days	Hours/Day	Days	Hours/Day	Days	Hours/Day					
Residential Construction																	
Lumber Delivery																	
	1 semi trailer - Beams, Framing, Sheathing	170	1	4,200	920	5	2,292	720	3	2,048	680	3	3,256	680	5	11,796	
	1 semi trailer - Beams, Framing, Sheathing	170	0.25	1,050	920	5	573	720	3	512	680	3	814	680	5	2,949	
Slab Pour																	
	100' Concrete Boom Truck	505	1	2,363	920	3	1,289	720	2	1,152	680	2	1,832	680	3	6,635	
	Concrete Truck (5 loads per house)	300	5	6,090	920	1	3,323	720	1	2,970	680	1	4,721	680	1	17,104	
Window/Door/Roof Tile/Drywall/Cabinet Delivery																	
	1 Semi-Trailer	170	1	4,200	920	5	2,292	720	3	2,048	680	3	3,256	680	5	11,796	

Notes:

1. Average time for delivery on multiple units per phase

TM DETAILED SUMMARY TABLE

OTHER	LAND USES	GROSS ACREAGE/ LOT AREA (NOT INC RDS)	NEIGHBORHOOD	LAND USE	DWELLING UNITS	TARGET LOT SIZE	GROSS NEIGH. ACREAGE/ LOT AREA (NOT INC RDS)	
SCHOOL	School	15.00	SINGLE FAMILY					
SUBTOTAL	School	15.00	ORCHARD VILLAGE					
SPECIAL USE AREA	Special Use Area	31.87	VINEYARD VILLAGE					
SUBTOTAL	Special Use Area	31.87	MULTI-FAMILY					
SPECIAL USE AREA TOTAL	Special Use Area	31.87	FANITA COMMONS					
PARKS	Community Park	11.41	ORCHARD VILLAGE					
SUBTOTAL	Community Park	11.41	VINEYARD VILLAGE					
AGRICULTURE (SEE SPECIFIC PLAN FOR OS-2 ZONING)	Ag Farm	27.28	MULTI-FAMILY SUBTOTAL					
SUBTOTAL	Ag Farm	27.28	OVERALL RESIDENTIAL TOTAL					2,949 375.67
AGRICULTURE TOTAL	Ag Farm	27.28						
OPEN SPACE	Habitat Enhancement Area	30.38						
SUBTOTAL	Habitat Enhancement Area	30.38						
HABITAT PRESERVE	Habitat Preserve OS	1651.17						
SUBTOTAL	Habitat Preserve OS	1651.17						
ROADS	Major Circulation	56.44						
SUBTOTAL	Major Circulation	56.44						
OTHER SUBTOTAL		2,282.64						
OVERALL TM TOTAL		2,638.05						



UNIT PHASING

RESIDENTIAL	UNIT NO.	Phase 1				Phase 2				Phase 3				Phase 4				Total	Total
		AC	DU	AC	DU	AC	DU	AC	DU	AC	DU	AC	DU						
R-2	123	25	123	25											123	25			
R-4	113	56	113	56											113	56			
R-5a	63	28	63	28											63	28			
R-5b	121	53	121	53											121	53			
R-6	91	53	91	53											91	53			
R-7	92	50	92	50											92	50			
R-8	168	83	168	83											168	83			
R-9	53	48	53	48											53	48			
R-10	172	59	172	59											172	59			
R-11	100	52	100	52											100	52			
R-12	110	51	110	51											110	51			
R-13	110	51	110	51											110	51			
R-14	67	41	67	41											67	41			
R-15	64	26	64	26											64	26			
R-16	64	26	64	26											64	26			
R-17	118	52	118	52											118	52			
R-18	120	67	120	67											120	67			
R-19	168	70	168	70											168	70			
R-20	138	28	138	28											138	28			
R-21	168	70	168	70											168	70			
R-22	138	28	138	28											138	28			
R-23	124	20	124	20											124	20			
R-24	124	20	124	20											124	20			
R-25a	15	13	15	13											15	13			
R-25b	15	13	15	13											15	13			
SF Subtotal		34.7	187	51.9	267	105.5	451	46.8	296	241.0	1,280								
AC	30.9	445																	
VC-1	2.6	10																	
VC-2	1.5	0																	
VC-3	1.4	17																	
VC-4	2.8	18																	
VC-5	1.5	17																	
VC-6	1.4	17																	
VC-7	1.5	17																	
VC-8	1.7	17																	
VC-9	2.2	49																	
VC-10	1.7	24																	
VC-11	1.5	20																	
VC-12	1.5	20																	
VC-13	1.5	20																	
VC-14	2.0	20																	
VC-15	1.9	18																	
VC-16a	0.7	0																	
VC-16b	0.7	0																	
VC-17a	0.6	0																	
VC-17b	0.6	0																	
VC-18	6.1	29																	
MU Subtotal		29.0	139	1.4	17														
RESIDENTIAL SUBTOTAL		103.1	1,090	74.0	571	116.3	512	68.8	814	375.4	2,949								
NON-RESIDENTIAL																			
CP-1 Active	Community Park	11.41																	
CP-1 Subtotal	Community Park	11.41																	
NP-1	Neighborhood Park	3.3																	
NP-2	Neighborhood Park	3.3																	
NP-3	Neighborhood Park	3.3																	
NP-4	Neighborhood Park	3.3																	
NP-5	Neighborhood Park	3.3																	
NP-6	Neighborhood Park	3.3																	
NP-7	Neighborhood Park	3.3																	
NP-8	Neighborhood Park	3.3																	
NP-9	Neighborhood Park	3.3																	
NP Subtotal	Neighborhood Park	33.0																	
MP-1, MP-2, MP-3, MP-4, MP-5, MP-6, MP-7, MP-8, MP-9, MP-10, MP-11, MP-12, MP-13, MP-14, MP-15, MP-16, MP-17, MP-18, MP-19, MP-20, MP-21, MP-22, MP-23, MP-24, MP-25, MP-26, MP-27, MP-28, MP-29, MP-30, MP-31, MP-32, MP-33, MP-34, MP-35, MP-36, MP-37, MP-38, MP-39, MP-40, MP-41, MP-42, MP-43, MP-44, MP-45, MP-46, MP-47, MP-48, MP-49, MP-50, MP-51, MP-52, MP-53, MP-54, MP-55, MP-56, MP-57, MP-58, MP-59, MP-60, MP-61, MP-62, MP-63, MP-64, MP-65, MP-66, MP-67, MP-68, MP-69, MP-70, MP-71, MP-72, MP-73, MP-74, MP-75, MP-76, MP-77, MP-78, MP-79, MP-80, MP-81, MP-82, MP-83, MP-84, MP-85, MP-86, MP-87, MP-88, MP-89, MP-90, MP-91, MP-92, MP-93, MP-94, MP-95, MP-96, MP-97, MP-98, MP-99, MP-100																			
MP Subtotal	Multi-Family	336.0																	
AF-1	Ag Farm	27.28																	
AF-2	Ag Farm	27.28																	
AF-3	Ag Farm	27.28																	
AF-4	Ag Farm	27.28																	
AF-5	Ag Farm	27.28																	
AF-6	Ag Farm	27.28																	
AF-7	Ag Farm	27.28																	
AF-8	Ag Farm	27.28																	
AF-9	Ag Farm	27.28																	
AF-10	Ag Farm	27.28																	
AF-11	Ag Farm	27.28																	
AF-12	Ag Farm	27.28																	
AF-13	Ag Farm	27.28																	
AF-14	Ag Farm	27.28																	
AF-15	Ag Farm	27.28																	
AF-16	Ag Farm	27.28																	
AF-17	Ag Farm	27.28																	
AF-18	Ag Farm	27.28																	
AF-19	Ag Farm	27.28																	
AF-20	Ag Farm	27.28																	
AF-21	Ag Farm	27.28																	
AF-22	Ag Farm	27.28																	
AF-23	Ag Farm	27.28																	
AF-24	Ag Farm	27.28																	
AF-25	Ag Farm	27.28																	
AF-26	Ag Farm	27.28																	
AF-27	Ag Farm	27.28																	
AF-28	Ag Farm	27.28																	
AF-29	Ag Farm	27.28																	
AF-30	Ag Farm	27.28																	
AF-31	Ag Farm	27.28																	
AF-32	Ag Farm	27.28																	

APPENDIX B

CALEEMOD PRINTOUTS

APPENDIX B

CALEEMOD PRINTOUT: CONSTRUCTION PERIOD PHASES 1 THRU 4

Fanita Ranch Construction - San Diego County APCD Air District, Annual

**Fanita Ranch Construction Phase 1-2
San Diego County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	19.20	83,603.37	0
User Defined Industrial	1.00	User Defined Unit	69.60	0.00	0
City Park	31.40	Acre	31.40	1,367,784.00	0
City Park	28.90	Acre	28.90	1,258,884.00	0
City Park	12.40	Acre	12.40	540,144.00	0
Apartments Low Rise	797.00	Dwelling Unit	63.90	797,000.00	2279
Apartments Low Rise	435.00	Dwelling Unit	27.19	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,272.00	Dwelling Unit	248.00	2,289,600.00	3638
Regional Shopping Center	60.00	1000sqft	9.31	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Construction Phase - Construction phasing provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

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Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Trips and VMT - assume 1 hauling trip per day, 10 miles per trip (cut and fill balanced onsite)

On-road Fugitive Dust - assume 50% onsite roadways for hauling trips are paved

Grading - grading acreage provided by developer

Construction Off-road Equipment Mitigation - fugitive dust control

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_Nonresidential_Exterior	76802	0
tblAreaCoating	Area_Nonresidential_Interior	230405	0
tblAreaCoating	Area_Residential_Exterior	2677455	0
tblAreaCoating	Area_Residential_Interior	8032365	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstructionPhase	NumDays	660.00	280.00
tblConstructionPhase	NumDays	360.00	40.00
tblConstructionPhase	NumDays	360.00	40.00

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tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.90
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.60
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	2.60
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	1.10
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	2.30
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	7.10

tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	17,355.00
tblTripsAndVMT	HaulingTripNumber	0.00	23,354.00
tblTripsAndVMT	HaulingTripNumber	0.00	320.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	11,677.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	VendorTripNumber	858.00	165.00
tblTripsAndVMT	VendorTripNumber	858.00	312.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	588.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	1,099.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3246	3.7598	2.2744	5.9600e-003	23.4781	0.1333	23.6114	2.4315	0.1227	2.5542	0.0000	530.6793	530.6793	0.1530	0.0000	534.5034
2022	0.8263	9.0479	5.8859	0.0176	23.8168	0.3076	24.1243	2.5276	0.2830	2.8106	0.0000	1,565.7976	1,565.7976	0.4449	0.0000	1,576.9206
2023	0.5946	3.9247	5.3085	0.0168	24.0637	0.1257	24.1894	2.5164	0.1162	2.6326	0.0000	1,520.8114	1,520.8114	0.2715	0.0000	1,527.5992
2024	1.8266	15.5113	14.2605	0.0462	14.3040	0.4928	14.7968	2.1235	0.4552	2.5787	0.0000	4,188.4799	4,188.4799	0.7540	0.0000	4,207.3302
2025	2.8380	24.9500	21.8234	0.0707	15.5291	0.8452	16.3742	2.7809	0.7791	3.5600	0.0000	6,349.4166	6,349.4166	1.4693	0.0000	6,386.1482

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	1.4688	0.2921
2	10-1-2021	12-31-2021	2.5899	0.4839
3	1-1-2022	3-31-2022	2.2629	0.4592
4	4-1-2022	6-30-2022	2.2915	0.4677
5	7-1-2022	9-30-2022	2.5023	0.5298
6	10-1-2022	12-31-2022	2.8332	0.6303
7	1-1-2023	3-31-2023	0.7876	0.2229
8	4-1-2023	6-30-2023	0.6691	0.2094
9	7-1-2023	9-30-2023	0.9119	0.4178
10	10-1-2023	12-31-2023	2.1491	1.6243
11	1-1-2024	3-31-2024	1.8009	1.4733
12	4-1-2024	6-30-2024	1.7775	1.4499
13	7-1-2024	9-30-2024	4.8889	1.8980
14	10-1-2024	12-31-2024	8.7700	2.3477
15	1-1-2025	3-31-2025	7.4182	2.2212
16	4-1-2025	6-30-2025	7.4820	2.2272
17	7-1-2025	9-30-2025	7.7721	2.3275
18	10-1-2025	12-31-2025	5.0154	2.0036
19	1-1-2026	3-31-2026	2.1056	1.5458
20	4-1-2026	6-30-2026	3.3482	1.8048
21	7-1-2026	9-30-2026	3.8745	1.8473
22	10-1-2026	12-31-2026	4.7767	2.6994
23	1-1-2027	3-31-2027	4.5357	2.5284
24	4-1-2027	6-30-2027	3.0203	1.2498
25	7-1-2027	9-30-2027	3.0535	1.2635
26	10-1-2027	12-31-2027	3.0624	1.2724
27	1-1-2028	3-31-2028	2.7765	1.2033
28	4-1-2028	6-30-2028	1.0100	0.8712
29	7-1-2028	9-30-2028	1.0211	0.8807
30	10-1-2028	12-31-2028	1.0302	0.8898
31	1-1-2029	3-31-2029	0.9986	0.8612

32	4-1-2029	6-30-2029	0.9792	0.8433
		Highest	8.7700	2.6994

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Energy	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	8,734.2115	8,734.2115	0.2962	0.0990	8,771.1204
Mobile	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	510.4715	0.0000	510.4715	30.1680	0.0000	1,264.6716
Water						0.0000	0.0000		0.0000	0.0000	63.1360	1,633.6925	1,696.8285	6.5504	0.1667	1,910.2724
Total	279.3816	7.6441	346.6409	0.6023	21.8199	45.7092	67.5290	5.3558	45.7092	51.0650	4,892.4037	12,214.9322	17,107.3359	41.0343	0.6054	18,313.6119

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Energy	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	8,734.2115	8,734.2115	0.2962	0.0990	8,771.1204
Mobile	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	510.4715	0.0000	510.4715	30.1680	0.0000	1,264.6716

Water						0.0000	0.0000		0.0000	0.0000	63.1360	1,633.6925	1,696.8285	6.5504	0.1667	1,910.2724
Total	279.3816	7.6441	346.6409	0.6023	21.8199	45.7092	67.5290	5.3558	45.7092	51.0650	4,892.4037	12,214.9322	17,107.3359	41.0343	0.6054	18,313.6119

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Site Preparation	Site Preparation	7/1/2021	8/25/2021	5	40	
2	Phase 1 Grading	Grading	8/26/2021	1/11/2023	5	360	
3	Phase 1 Utilities	Trenching	8/29/2022	11/17/2023	5	320	
4	Phase 1 Surface Improvements	Paving	2/27/2023	11/1/2024	5	440	
5	Phase 1 Building Construction	Building Construction	9/18/2023	3/26/2027	5	920	
6	Phase 2 Site Preparation	Site Preparation	7/1/2024	8/23/2024	5	40	
7	Phase 2 Grading	Grading	8/26/2024	11/14/2025	5	320	
8	Phase 2 Utilities	Trenching	8/25/2025	7/24/2026	5	240	
9	Phase 2 Surface Improvements	Paving	2/23/2026	3/19/2027	5	280	
10	Phase 3 Site Preparation	Site Preparation	3/24/2026	5/18/2026	5	40	
11	Phase 3 Grading	Grading	5/19/2026	3/20/2028	5	480	
12	Phase 2 Building Construction	Building Construction	9/28/2026	6/28/2029	5	720	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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Phase 1 Site Preparation	Rubber Tired Dozers	1	5.10	436	0.40
Phase 1 Site Preparation	Rubber Tired Loaders	1	5.10	249	0.36
Phase 1 Grading	Excavators	1	0.20	760	0.38
Phase 1 Grading	Graders	1	2.30	275	0.41
Phase 1 Grading	Graders	1	0.20	275	0.41
Phase 1 Grading	Off-Highway Trucks	3	2.30	300	0.38
Phase 1 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 1 Grading	Off-Highway Trucks	2	0.20	300	0.38
Phase 1 Grading	Plate Compactors	1	2.30	554	0.43
Phase 1 Grading	Rubber Tired Dozers	1	2.30	600	0.40
Phase 1 Grading	Rubber Tired Dozers	1	2.30	354	0.40
Phase 1 Grading	Rubber Tired Dozers	1	2.30	436	0.40
Phase 1 Grading	Rubber Tired Dozers	1	0.20	600	0.40
Phase 1 Grading	Rubber Tired Dozers	2	0.20	436	0.40
Phase 1 Grading	Scrapers	10	2.30	600	0.48
Phase 1 Grading	Tractors/Loaders/Backhoes	1	0.60	249	0.37
Phase 1 Utilities	Excavators	1	1.10	417	0.38
Phase 1 Utilities	Excavators	1	0.50	235	0.38
Phase 1 Utilities	Excavators	1	1.00	235	0.38
Phase 1 Utilities	Excavators	1	2.90	235	0.38
Phase 1 Utilities	Excavators	1	0.90	417	0.38
Phase 1 Utilities	Excavators	1	0.50	235	0.38
Phase 1 Utilities	Excavators	1	7.00	235	0.38
Phase 1 Utilities	Excavators	1	0.40	417	0.38
Phase 1 Utilities	Excavators	1	0.20	235	0.38
Phase 1 Utilities	Excavators	1	0.30	235	0.38
Phase 1 Utilities	Excavators	1	2.90	140	0.38
Phase 1 Utilities	Excavators	1	1.70	85	0.38
Phase 1 Utilities	Excavators	1	2.00	417	0.38
Phase 1 Utilities	Excavators	1	1.00	235	0.38
Phase 1 Utilities	Excavators	1	3.00	235	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	450	0.38

Phase 1 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.00	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.30	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	2.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.50	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.10	170	0.38
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.80	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.70	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	3.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.30	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.20	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	2.50	164	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 1 Surface Improvements	Graders	1	0.60	150	0.41
Phase 1 Surface Improvements	Graders	1	0.60	150	0.41
Phase 1 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38

Phase 1 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 1 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 1 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 1 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 1 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 1 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 1 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 1 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 1 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 2 Site Preparation	Rubber Tired Dozers	1	4.80	436	0.40
Phase 2 Site Preparation	Rubber Tired Loaders	1	4.80	249	0.36
Phase 2 Grading	Excavators	1	6.00	760	0.38
Phase 2 Grading	Graders	1	7.10	275	0.41
Phase 2 Grading	Graders	1	6.00	275	0.41
Phase 2 Grading	Off-Highway Trucks	3	7.10	300	0.38
Phase 2 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 2 Grading	Off-Highway Trucks	2	6.00	300	0.38
Phase 2 Grading	Plate Compactors	1	7.10	554	0.43
Phase 2 Grading	Rubber Tired Dozers	1	7.10	600	0.40
Phase 2 Grading	Rubber Tired Dozers	1	7.10	354	0.40
Phase 2 Grading	Rubber Tired Dozers	1	7.10	436	0.40
Phase 2 Grading	Rubber Tired Dozers	1	6.00	600	0.40

Phase 2 Grading	Rubber Tired Dozers	2	6.00	436	0.40
Phase 2 Grading	Scrapers	10	7.10	600	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	1	1.80	249	0.37
Phase 2 Utilities	Excavators	1	2.10	417	0.38
Phase 2 Utilities	Excavators	1	1.10	235	0.38
Phase 2 Utilities	Excavators	1	2.00	235	0.38
Phase 2 Utilities	Excavators	1	3.70	235	0.38
Phase 2 Utilities	Excavators	1	1.50	417	0.38
Phase 2 Utilities	Excavators	1	0.80	235	0.38
Phase 2 Utilities	Excavators	1	9.00	235	0.38
Phase 2 Utilities	Excavators	1	0.60	417	0.38
Phase 2 Utilities	Excavators	1	0.30	235	0.38
Phase 2 Utilities	Excavators	1	1.00	235	0.38
Phase 2 Utilities	Excavators	1	4.20	140	0.38
Phase 2 Utilities	Excavators	1	2.50	85	0.38
Phase 2 Utilities	Excavators	1	2.40	417	0.38
Phase 2 Utilities	Excavators	1	1.20	235	0.38
Phase 2 Utilities	Excavators	1	3.70	235	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.60	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.30	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.40	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	3.10	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.40	170	0.38

Phase 2 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.60	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.30	170	0.38
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.60	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.80	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	4.50	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	0.40	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	0.50	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	3.60	164	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.80	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.90	170	0.37
Phase 2 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 2 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 2 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 2 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 2 Surface Improvements	Scrapers	1	0.60	150	0.48

Phase 2 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 3 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 3 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 3 Grading	Excavators	1	1.10	760	0.38
Phase 3 Grading	Graders	1	2.60	275	0.41
Phase 3 Grading	Graders	1	1.10	275	0.41
Phase 3 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 3 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 3 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 3 Grading	Plate Compactors	1	2.60	554	0.43
Phase 3 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 3 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 3 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 3 Grading	Scrapers	10	2.60	600	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 2 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Cranes	1	7.00	231	0.29
Phase 1 Building Construction	Cranes	1	7.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Phase 2 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	29	73.00	0.00	23,354.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Utilities	43	108.00	0.00	320.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	18	1,099.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	29	73.00	0.00	11,677.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Utilities	43	108.00	0.00	240.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	29	73.00	0.00	17,355.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	18	588.00	165.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Phase 1 Site Preparation - 2021

Unmitigated Construction On-Site

Off-Road	0.0116	0.0868	0.3152	5.4000e-004		4.4700e-003	4.4700e-003		4.1700e-003	4.1700e-003	0.0000	47.4656	47.4656	0.0154	0.0000	47.8494
Total	0.0116	0.0868	0.3152	5.4000e-004	0.0518	4.4700e-003	0.0563	0.0139	4.1700e-003	0.0181	0.0000	47.4656	47.4656	0.0154	0.0000	47.8494

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	2.3500e-003	4.3000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3948	0.3948	5.0000e-005	0.0000	0.3961
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.5000e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.7005	0.7005	2.0000e-005	0.0000	0.7010
Total	4.0000e-004	2.6000e-003	2.9300e-003	1.0000e-005	9.0700e-003	1.0000e-005	9.0800e-003	1.0200e-003	1.0000e-005	1.0200e-003	0.0000	1.0953	1.0953	7.0000e-005	0.0000	1.0971

3.3 Phase 1 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2346	0.0000	0.2346	0.0697	0.0000	0.0697	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2652	2.9866	1.7598	4.5500e-003		0.1126	0.1126		0.1036	0.1036	0.0000	399.6868	399.6868	0.1293	0.0000	402.9184
Total	0.2652	2.9866	1.7598	4.5500e-003	0.2346	0.1126	0.3472	0.0697	0.1036	0.1733	0.0000	399.6868	399.6868	0.1293	0.0000	402.9184

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.6700e-003	0.3508	0.0635	5.9000e-004	22.9655	4.9000e-004	22.9660	2.2938	4.7000e-004	2.2943	0.0000	58.9080	58.9080	7.6000e-003	0.0000	59.0980
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0117	8.3300e-003	0.0839	2.6000e-004	0.0269	1.9000e-004	0.0271	7.1600e-003	1.8000e-004	7.3300e-003	0.0000	23.5236	23.5236	6.7000e-004	0.0000	23.5404
Total	0.0193	0.3592	0.1474	8.5000e-004	22.9924	6.8000e-004	22.9931	2.3010	6.5000e-004	2.3016	0.0000	82.4316	82.4316	8.2700e-003	0.0000	82.6384

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0576	0.0000	0.0576	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0563	0.2473	2.0480	4.5500e-003		7.6300e-003	7.6300e-003		7.6100e-003	7.6100e-003	0.0000	399.6863	399.6863	0.1293	0.0000	402.9180
Total	0.0563	0.2473	2.0480	4.5500e-003	0.0576	7.6300e-003	0.0653	0.0171	7.6100e-003	0.0247	0.0000	399.6863	399.6863	0.1293	0.0000	402.9180

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.6700e-003	0.3508	0.0635	5.9000e-004	4.9287	4.9000e-004	4.9292	0.4929	4.7000e-004	0.4934	0.0000	58.9080	58.9080	7.6000e-003	0.0000	59.0980

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0117	8.3300e-003	0.0839	2.6000e-004	0.0209	1.9000e-004	0.0211	5.6700e-003	1.8000e-004	5.8400e-003	0.0000	23.5236	23.5236	6.7000e-004	0.0000	23.5404
Total	0.0193	0.3592	0.1474	8.5000e-004	4.9495	6.8000e-004	4.9502	0.4986	6.5000e-004	0.4992	0.0000	82.4316	82.4316	8.2700e-003	0.0000	82.6384

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4179	0.0000	0.4179	0.1705	0.0000	0.1705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6877	7.4622	4.6286	0.0129		0.2812	0.2812		0.2587	0.2587	0.0000	1,128.7745	1,128.7745	0.3651	0.0000	1,137.9012
Total	0.6877	7.4622	4.6286	0.0129	0.4179	0.2812	0.6992	0.1705	0.2587	0.4292	0.0000	1,128.7745	1,128.7745	0.3651	0.0000	1,137.9012

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0203	0.9414	0.1751	1.6500e-003	22.9691	1.1700e-003	22.9703	2.2951	1.1200e-003	2.2962	0.0000	164.5921	164.5921	0.0206	0.0000	165.1071
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0312	0.0215	0.2201	7.1000e-004	0.0761	5.3000e-004	0.0766	0.0202	4.9000e-004	0.0207	0.0000	64.0426	64.0426	1.7500e-003	0.0000	64.0862
Total	0.0515	0.9628	0.3952	2.3600e-003	23.0452	1.7000e-003	23.0469	2.3153	1.6100e-003	2.3169	0.0000	228.6347	228.6347	0.0224	0.0000	229.1933

Mitigated Construction On-Site

Off-Road	0.0205	0.2158	0.1409	4.0000e-004		8.1800e-003	8.1800e-003		7.5300e-003	7.5300e-003	0.0000	34.7334	34.7334	0.0112	0.0000	35.0142
Total	0.0205	0.2158	0.1409	4.0000e-004	0.1429	8.1800e-003	0.1511	0.0193	7.5300e-003	0.0268	0.0000	34.7334	34.7334	0.0112	0.0000	35.0142

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	0.0233	4.8700e-003	5.0000e-005	22.9637	2.0000e-005	22.9637	2.2932	2.0000e-005	2.2932	0.0000	4.8880	4.8880	5.6000e-004	0.0000	4.9019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.0000e-004	6.2800e-003	2.0000e-005	2.3400e-003	2.0000e-005	2.3600e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	1.8953	1.8953	5.0000e-005	0.0000	1.8965
Total	1.3600e-003	0.0239	0.0112	7.0000e-005	22.9661	4.0000e-005	22.9661	2.2938	3.0000e-005	2.2938	0.0000	6.7833	6.7833	6.1000e-004	0.0000	6.7984

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0351	0.0000	0.0351	4.7400e-003	0.0000	4.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8800e-003	0.0213	0.1781	4.0000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	34.7334	34.7334	0.0112	0.0000	35.0142
Total	4.8800e-003	0.0213	0.1781	4.0000e-004	0.0351	6.6000e-004	0.0358	4.7400e-003	6.6000e-004	5.4000e-003	0.0000	34.7334	34.7334	0.0112	0.0000	35.0142

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	0.0233	4.8700e-003	5.0000e-005	4.9269	2.0000e-005	4.9269	0.4922	2.0000e-005	0.4923	0.0000	4.8880	4.8880	5.6000e-004	0.0000	4.9019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.0000e-004	6.2800e-003	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.9000e-004	1.0000e-005	5.1000e-004	0.0000	1.8953	1.8953	5.0000e-005	0.0000	1.8965
Total	1.3600e-003	0.0239	0.0112	7.0000e-005	4.9287	4.0000e-005	4.9287	0.4927	3.0000e-005	0.4928	0.0000	6.7833	6.7833	6.1000e-004	0.0000	6.7984

3.4 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0710	0.6069	0.7484	1.9900e-003		0.0244	0.0244		0.0224	0.0224	0.0000	174.7128	174.7128	0.0565	0.0000	176.1254
Total	0.0710	0.6069	0.7484	1.9900e-003		0.0244	0.0244		0.0224	0.0224	0.0000	174.7128	174.7128	0.0565	0.0000	176.1254

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	5.0200e-003	9.3000e-004	1.0000e-005	0.3147	1.0000e-005	0.3147	0.0314	1.0000e-005	0.0314	0.0000	0.8783	0.8783	1.1000e-004	0.0000	0.8810

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0160	0.0110	0.1127	3.6000e-004	0.0390	2.7000e-004	0.0392	0.0104	2.5000e-004	0.0106	0.0000	32.7974	32.7974	8.9000e-004	0.0000	32.8197
Total	0.0161	0.0160	0.1137	3.7000e-004	0.3537	2.8000e-004	0.3539	0.0418	2.6000e-004	0.0420	0.0000	33.6756	33.6756	1.0000e-003	0.0000	33.7007

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0293	0.1569	1.0942	1.9900e-003		6.0200e-003	6.0200e-003		5.7800e-003	5.7800e-003	0.0000	174.7126	174.7126	0.0565	0.0000	176.1252
Total	0.0293	0.1569	1.0942	1.9900e-003		6.0200e-003	6.0200e-003		5.7800e-003	5.7800e-003	0.0000	174.7126	174.7126	0.0565	0.0000	176.1252

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	5.0200e-003	9.3000e-004	1.0000e-005	0.0675	1.0000e-005	0.0675	6.7500e-003	1.0000e-005	6.7600e-003	0.0000	0.8783	0.8783	1.1000e-004	0.0000	0.8810
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0160	0.0110	0.1127	3.6000e-004	0.0302	2.7000e-004	0.0305	8.2000e-003	2.5000e-004	8.4500e-003	0.0000	32.7974	32.7974	8.9000e-004	0.0000	32.8197
Total	0.0161	0.0160	0.1137	3.7000e-004	0.0977	2.8000e-004	0.0980	0.0150	2.6000e-004	0.0152	0.0000	33.6756	33.6756	1.0000e-003	0.0000	33.7007

3.4 Phase 1 Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1722	1.3646	1.9084	5.0900e-003		0.0549	0.0549		0.0505	0.0505	0.0000	446.8129	446.8129	0.1445	0.0000	450.4256
Total	0.1722	1.3646	1.9084	5.0900e-003		0.0549	0.0549		0.0505	0.0505	0.0000	446.8129	446.8129	0.1445	0.0000	450.4256

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	0.0103	2.1600e-003	2.0000e-005	0.3147	1.0000e-005	0.3147	0.0315	1.0000e-005	0.0315	0.0000	2.1663	2.1663	2.5000e-004	0.0000	2.1724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0387	0.0256	0.2672	8.9000e-004	0.0996	6.8000e-004	0.1003	0.0265	6.2000e-004	0.0271	0.0000	80.6139	80.6139	2.0900e-003	0.0000	80.6661
Total	0.0389	0.0360	0.2693	9.1000e-004	0.4143	6.9000e-004	0.4150	0.0579	6.3000e-004	0.0586	0.0000	82.7802	82.7802	2.3400e-003	0.0000	82.8386

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0735	0.3808	2.7961	5.0900e-003		0.0143	0.0143		0.0138	0.0138	0.0000	446.8123	446.8123	0.1445	0.0000	450.4250

Total	0.0735	0.3808	2.7961	5.0900e-003		0.0143	0.0143		0.0138	0.0138	0.0000	446.8123	446.8123	0.1445	0.0000	450.4250
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	0.0103	2.1600e-003	2.0000e-005	0.0676	1.0000e-005	0.0676	6.7700e-003	1.0000e-005	6.7800e-003	0.0000	2.1663	2.1663	2.5000e-004	0.0000	2.1724
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0387	0.0256	0.2672	8.9000e-004	0.0772	6.8000e-004	0.0779	0.0210	6.2000e-004	0.0216	0.0000	80.6139	80.6139	2.0900e-003	0.0000	80.6661
Total	0.0389	0.0360	0.2693	9.1000e-004	0.1448	6.9000e-004	0.1454	0.0277	6.3000e-004	0.0284	0.0000	82.7802	82.7802	2.3400e-003	0.0000	82.8386

3.5 Phase 1 Surface Improvements - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0737	0.5699	0.5947	1.6700e-003		0.0243	0.0243		0.0224	0.0224	0.0000	146.7662	146.7662	0.0475	0.0000	147.9529
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0737	0.5699	0.5947	1.6700e-003		0.0243	0.0243		0.0224	0.0224	0.0000	146.7662	146.7662	0.0475	0.0000	147.9529

Unmitigated Construction Off-Site

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0515	0.0341	0.3549	1.1800e-003	0.1025	9.0000e-004	0.1034	0.0279	8.3000e-004	0.0287	0.0000	107.0958	107.0958	2.7700e-003	0.0000	107.1652
Total	0.0515	0.0341	0.3549	1.1800e-003	0.1025	9.0000e-004	0.1034	0.0279	8.3000e-004	0.0287	0.0000	107.0958	107.0958	2.7700e-003	0.0000	107.1652

3.5 Phase 1 Surface Improvements - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0715	0.5281	0.5908	1.6700e-003		0.0223	0.0223		0.0205	0.0205	0.0000	146.8120	146.8120	0.0475	0.0000	147.9990
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0715	0.5281	0.5908	1.6700e-003		0.0223	0.0223		0.0205	0.0205	0.0000	146.8120	146.8120	0.0475	0.0000	147.9990

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0489	0.0312	0.3315	1.1400e-003	0.1323	8.8000e-004	0.1332	0.0352	8.1000e-004	0.0360	0.0000	102.8796	102.8796	2.5500e-003	0.0000	102.9433
Total	0.0489	0.0312	0.3315	1.1400e-003	0.1323	8.8000e-004	0.1332	0.0352	8.1000e-004	0.0360	0.0000	102.8796	102.8796	2.5500e-003	0.0000	102.9433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0210	0.1020	0.8740	1.6700e-003		2.8900e-003	2.8900e-003		2.8800e-003	2.8800e-003	0.0000	146.8118	146.8118	0.0475	0.0000	147.9988
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0210	0.1020	0.8740	1.6700e-003		2.8900e-003	2.8900e-003		2.8800e-003	2.8800e-003	0.0000	146.8118	146.8118	0.0475	0.0000	147.9988

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0489	0.0312	0.3315	1.1400e-003	0.1025	8.8000e-004	0.1034	0.0279	8.1000e-004	0.0287	0.0000	102.8796	102.8796	2.5500e-003	0.0000	102.9433
Total	0.0489	0.0312	0.3315	1.1400e-003	0.1025	8.8000e-004	0.1034	0.0279	8.1000e-004	0.0287	0.0000	102.8796	102.8796	2.5500e-003	0.0000	102.9433

3.6 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0820	0.7034	0.8661	1.5300e-003		0.0334	0.0334		0.0313	0.0313	0.0000	132.9829	132.9829	0.0356	0.0000	133.8722

Total	0.0820	0.7034	0.8661	1.5300e-003		0.0334	0.0334		0.0313	0.0313	0.0000	132.9829	132.9829	0.0356	0.0000	133.8722
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0260	0.8920	0.2765	3.0200e-003	0.0777	1.0700e-003	0.0787	0.0224	1.0200e-003	0.0234	0.0000	295.3607	295.3607	0.0201	0.0000	295.8628
Worker	0.1285	0.0851	0.8865	2.9600e-003	0.3305	2.2400e-003	0.3327	0.0878	2.0700e-003	0.0899	0.0000	267.4961	267.4961	6.9300e-003	0.0000	267.6694
Total	0.1545	0.9771	1.1630	5.9800e-003	0.4082	3.3100e-003	0.4115	0.1102	3.0900e-003	0.1133	0.0000	562.8568	562.8568	0.0270	0.0000	563.5322

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0590	0.4891	0.9424	1.5300e-003		0.0231	0.0231		0.0219	0.0219	0.0000	132.9827	132.9827	0.0356	0.0000	133.8721
Total	0.0590	0.4891	0.9424	1.5300e-003		0.0231	0.0231		0.0219	0.0219	0.0000	132.9827	132.9827	0.0356	0.0000	133.8721

Mitigated Construction Off-Site

Vendor	0.0875	3.0722	0.9351	0.0105	0.2713	3.6400e-003	0.2749	0.0783	3.4700e-003	0.0818	0.0000	1,025.2355	1,025.2355	0.0693	0.0000	1,026.9679
Worker	0.4269	0.2726	2.8921	9.9200e-003	1.1545	7.6900e-003	1.1622	0.3068	7.0800e-003	0.3139	0.0000	897.6649	897.6649	0.0222	0.0000	898.2209
Total	0.5144	3.3448	3.8272	0.0204	1.4258	0.0113	1.4371	0.3851	0.0106	0.3957	0.0000	1,922.9004	1,922.9004	0.0915	0.0000	1,925.1888

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1942	1.6027	3.2813	5.3600e-003		0.0711	0.0711		0.0674	0.0674	0.0000	464.6314	464.6314	0.1239	0.0000	467.7279
Total	0.1942	1.6027	3.2813	5.3600e-003		0.0711	0.0711		0.0674	0.0674	0.0000	464.6314	464.6314	0.1239	0.0000	467.7279

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0875	3.0722	0.9351	0.0105	0.2214	3.6400e-003	0.2250	0.0661	3.4700e-003	0.0696	0.0000	1,025.2355	1,025.2355	0.0693	0.0000	1,026.9679
Worker	0.4269	0.2726	2.8921	9.9200e-003	0.8946	7.6900e-003	0.9023	0.2430	7.0800e-003	0.2501	0.0000	897.6649	897.6649	0.0222	0.0000	898.2209
Total	0.5144	3.3448	3.8272	0.0204	1.1160	0.0113	1.1273	0.3091	0.0106	0.3196	0.0000	1,922.9004	1,922.9004	0.0915	0.0000	1,925.1888

3.6 Phase 1 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374
Total	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0846	3.0159	0.9127	0.0103	0.2703	3.5100e-003	0.2738	0.0780	3.3600e-003	0.0814	0.0000	1,015.1093	1,015.1093	0.0683	0.0000	1,016.8166
Worker	0.4061	0.2504	2.6891	9.4800e-003	1.1501	7.5400e-003	1.1577	0.3056	6.9400e-003	0.3126	0.0000	858.0879	858.0879	0.0205	0.0000	858.5991
Total	0.4907	3.2663	3.6018	0.0198	1.4204	0.0111	1.4314	0.3836	0.0103	0.3939	0.0000	1,873.1972	1,873.1972	0.0887	0.0000	1,875.4157

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1822	1.4920	3.2592	5.3400e-003		0.0621	0.0621		0.0589	0.0589	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369

Total	0.1822	1.4920	3.2592	5.3400e-003		0.0621	0.0621		0.0589	0.0589	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0846	3.0159	0.9127	0.0103	0.2206	3.5100e-003	0.2241	0.0658	3.3600e-003	0.0692	0.0000	1,015.1093	1,015.1093	0.0683	0.0000	1,016.8166
Worker	0.4061	0.2504	2.6891	9.4800e-003	0.8912	7.5400e-003	0.8987	0.2421	6.9400e-003	0.2490	0.0000	858.0879	858.0879	0.0205	0.0000	858.5991
Total	0.4907	3.2663	3.6018	0.0198	1.1117	0.0111	1.1228	0.3079	0.0103	0.3182	0.0000	1,873.1972	1,873.1972	0.0887	0.0000	1,875.4157

3.6 Phase 1 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374
Total	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374

Unmitigated Construction Off-Site

Vendor	0.0824	2.9727	0.8997	0.0103	0.2206	3.4100e-003	0.2240	0.0658	3.2600e-003	0.0691	0.0000	1,009.2985	1,009.2985	0.0676	0.0000	1,010.9882
Worker	0.3894	0.2329	2.5270	9.1400e-003	0.8912	7.3100e-003	0.8985	0.2421	6.7200e-003	0.2488	0.0000	826.6624	826.6624	0.0191	0.0000	827.1386
Total	0.4718	3.2056	3.4266	0.0194	1.1117	0.0107	1.1225	0.3079	9.9800e-003	0.3179	0.0000	1,835.9609	1,835.9609	0.0866	0.0000	1,838.1268

3.6 Phase 1 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0590	0.4867	0.6992	1.2500e-003		0.0207	0.0207		0.0194	0.0194	0.0000	108.1788	108.1788	0.0287	0.0000	108.8973
Total	0.0590	0.4867	0.6992	1.2500e-003		0.0207	0.0207		0.0194	0.0194	0.0000	108.1788	108.1788	0.0287	0.0000	108.8973

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0188	0.6851	0.2077	2.3800e-003	0.0632	7.8000e-004	0.0639	0.0182	7.4000e-004	0.0190	0.0000	234.6446	234.6446	0.0157	0.0000	235.0360
Worker	0.0871	0.0508	0.5570	2.0600e-003	0.2688	1.6200e-003	0.2704	0.0714	1.4900e-003	0.0729	0.0000	186.7324	186.7324	4.1700e-003	0.0000	186.8366
Total	0.1059	0.7359	0.7647	4.4400e-003	0.3320	2.4000e-003	0.3344	0.0897	2.2300e-003	0.0919	0.0000	421.3771	421.3771	0.0198	0.0000	421.8726

Mitigated Construction On-Site

Off-Road	0.0306	0.2989	0.3285	5.2000e-004		0.0132	0.0132		0.0121	0.0121	0.0000	46.0385	46.0385	0.0149	0.0000	46.4108
Total	0.0306	0.2989	0.3285	5.2000e-004	0.1995	0.0132	0.2127	0.0535	0.0121	0.0656	0.0000	46.0385	46.0385	0.0149	0.0000	46.4108

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7700e-003	3.7000e-004	0.0000	0.0393	0.0000	0.0394	3.9300e-003	0.0000	3.9300e-003	0.0000	0.3731	0.3731	4.0000e-005	0.0000	0.3741
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.9000e-004	2.0100e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6235	0.6235	2.0000e-005	0.0000	0.6239
Total	3.3000e-004	1.9600e-003	2.3800e-003	1.0000e-005	0.0401	1.0000e-005	0.0402	4.1400e-003	0.0000	4.1500e-003	0.0000	0.9966	0.9966	6.0000e-005	0.0000	0.9980

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0490	0.0000	0.0490	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9500e-003	0.0708	0.3067	5.2000e-004		2.9200e-003	2.9200e-003		2.7400e-003	2.7400e-003	0.0000	46.0385	46.0385	0.0149	0.0000	46.4107
Total	9.9500e-003	0.0708	0.3067	5.2000e-004	0.0490	2.9200e-003	0.0519	0.0131	2.7400e-003	0.0159	0.0000	46.0385	46.0385	0.0149	0.0000	46.4107

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7700e-003	3.7000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3731	0.3731	4.0000e-005	0.0000	0.3741
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	1.9000e-004	2.0100e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.6235	0.6235	2.0000e-005	0.0000	0.6239
Total	3.3000e-004	1.9600e-003	2.3800e-003	1.0000e-005	9.0700e-003	1.0000e-005	9.0800e-003	1.0200e-003	0.0000	1.0200e-003	0.0000	0.9966	0.9966	6.0000e-005	0.0000	0.9980

3.8 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9964	0.0000	0.9964	0.4915	0.0000	0.4915	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8778	8.8721	6.0641	0.0165		0.3424	0.3424		0.3151	0.3151	0.0000	1,451.9740	1,451.9740	0.4696	0.0000	1,463.7140
Total	0.8778	8.8721	6.0641	0.0165	0.9964	0.3424	1.3388	0.4915	0.3151	0.8065	0.0000	1,451.9740	1,451.9740	0.4696	0.0000	1,463.7140

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8500e-003	0.1483	0.0313	3.1000e-004	11.4829	1.1000e-004	11.4830	1.1470	1.1000e-004	1.1471	0.0000	31.3094	31.3094	3.5200e-003	0.0000	31.3973

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9600e-003	6.3600e-003	0.0675	2.3000e-004	0.0269	1.8000e-004	0.0271	7.1600e-003	1.7000e-004	7.3200e-003	0.0000	20.9376	20.9376	5.2000e-004	0.0000	20.9505
Total	0.0128	0.1547	0.0987	5.4000e-004	11.5098	2.9000e-004	11.5101	1.1541	2.8000e-004	1.1544	0.0000	52.2469	52.2469	4.0400e-003	0.0000	52.3478

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2448	0.0000	0.2448	0.1208	0.0000	0.1208	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2038	0.8885	7.4371	0.0165		0.0274	0.0274		0.0274	0.0274	0.0000	1,451.9723	1,451.9723	0.4696	0.0000	1,463.7122
Total	0.2038	0.8885	7.4371	0.0165	0.2448	0.0274	0.2722	0.1208	0.0274	0.1481	0.0000	1,451.9723	1,451.9723	0.4696	0.0000	1,463.7122

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8500e-003	0.1483	0.0313	3.1000e-004	2.4645	1.1000e-004	2.4646	0.2465	1.1000e-004	0.2466	0.0000	31.3094	31.3094	3.5200e-003	0.0000	31.3973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9600e-003	6.3600e-003	0.0675	2.3000e-004	0.0209	1.8000e-004	0.0211	5.6700e-003	1.7000e-004	5.8300e-003	0.0000	20.9376	20.9376	5.2000e-004	0.0000	20.9505
Total	0.0128	0.1547	0.0987	5.4000e-004	2.4853	2.9000e-004	2.4856	0.2522	2.8000e-004	0.2524	0.0000	52.2469	52.2469	4.0400e-003	0.0000	52.3478

3.8 Phase 2 Grading - 2025

Unmitigated Construction On-Site

Off-Road	0.5048	2.1975	18.4310	0.0410		0.0678	0.0678		0.0677	0.0677	0.0000	3,601.2287	3,601.2287	1.1647	0.0000	3,630.3465
Total	0.5048	2.1975	18.4310	0.0410	0.5605	0.0678	0.6283	0.2943	0.0677	0.3620	0.0000	3,601.2287	3,601.2287	1.1647	0.0000	3,630.3465

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.8900e-003	0.3617	0.0777	7.7000e-004	2.4661	2.6000e-004	2.4663	0.2471	2.5000e-004	0.2473	0.0000	76.8798	76.8798	8.5300e-003	0.0000	77.0931
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0236	0.0145	0.1560	5.5000e-004	0.0517	4.4000e-004	0.0522	0.0141	4.0000e-004	0.0145	0.0000	49.7911	49.7911	1.1900e-003	0.0000	49.8207
Total	0.0305	0.3762	0.2338	1.3200e-003	2.5178	7.0000e-004	2.5185	0.2611	6.5000e-004	0.2618	0.0000	126.6709	126.6709	9.7200e-003	0.0000	126.9138

3.9 Phase 2 Utilities - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0893	0.6160	1.0800	2.9000e-003		0.0248	0.0248		0.0228	0.0228	0.0000	254.5457	254.5457	0.0823	0.0000	256.6039
Total	0.0893	0.6160	1.0800	2.9000e-003		0.0248	0.0248		0.0228	0.0228	0.0000	254.5457	254.5457	0.0823	0.0000	256.6039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	4.0400e-003	8.7000e-004	1.0000e-005	0.2360	0.0000	0.2360	0.0236	0.0000	0.0236	0.0000	0.8594	0.8594	1.0000e-004	0.0000	0.8618
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0142	8.7700e-003	0.0942	3.3000e-004	0.0403	2.6000e-004	0.0405	0.0107	2.4000e-004	0.0109	0.0000	30.0469	30.0469	7.2000e-004	0.0000	30.0648
Total	0.0143	0.0128	0.0950	3.4000e-004	0.2763	2.6000e-004	0.2766	0.0343	2.4000e-004	0.0345	0.0000	30.9063	30.9063	8.2000e-004	0.0000	30.9266

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0407	0.1998	1.5901	2.9000e-003		7.2300e-003	7.2300e-003		7.0000e-003	7.0000e-003	0.0000	254.5454	254.5454	0.0823	0.0000	256.6036
Total	0.0407	0.1998	1.5901	2.9000e-003		7.2300e-003	7.2300e-003		7.0000e-003	7.0000e-003	0.0000	254.5454	254.5454	0.0823	0.0000	256.6036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	4.0400e-003	8.7000e-004	1.0000e-005	0.0507	0.0000	0.0507	5.0700e-003	0.0000	5.0700e-003	0.0000	0.8594	0.8594	1.0000e-004	0.0000	0.8618

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0142	8.7700e-003	0.0942	3.3000e-004	0.0312	2.6000e-004	0.0315	8.4800e-003	2.4000e-004	8.7200e-003	0.0000	30.0469	30.0469	7.2000e-004	0.0000	30.0648
Total	0.0143	0.0128	0.0950	3.4000e-004	0.0819	2.6000e-004	0.0821	0.0136	2.4000e-004	0.0138	0.0000	30.9063	30.9063	8.2000e-004	0.0000	30.9266

3.9 Phase 2 Utilities - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1411	0.9736	1.7070	4.5800e-003		0.0391	0.0391		0.0360	0.0360	0.0000	402.3465	402.3465	0.1301	0.0000	405.5997
Total	0.1411	0.9736	1.7070	4.5800e-003		0.0391	0.0391		0.0360	0.0360	0.0000	402.3465	402.3465	0.1301	0.0000	405.5997

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	6.2900e-003	1.3800e-003	1.0000e-005	0.2360	0.0000	0.2360	0.0236	0.0000	0.0236	0.0000	1.3465	1.3465	1.5000e-004	0.0000	1.3502
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0129	0.1399	5.1000e-004	0.0637	4.0000e-004	0.0641	0.0169	3.7000e-004	0.0173	0.0000	45.7542	45.7542	1.0500e-003	0.0000	45.7806
Total	0.0217	0.0192	0.1412	5.2000e-004	0.2997	4.0000e-004	0.3001	0.0405	3.7000e-004	0.0409	0.0000	47.1007	47.1007	1.2000e-003	0.0000	47.1308

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0643	0.3158	2.5134	4.5800e-003		0.0114	0.0114		0.0111	0.0111	0.0000	402.3460	402.3460	0.1301	0.0000	405.5992
Total	0.0643	0.3158	2.5134	4.5800e-003		0.0114	0.0114		0.0111	0.0111	0.0000	402.3460	402.3460	0.1301	0.0000	405.5992

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	6.2900e-003	1.3800e-003	1.0000e-005	0.0507	0.0000	0.0507	5.0800e-003	0.0000	5.0800e-003	0.0000	1.3465	1.3465	1.5000e-004	0.0000	1.3502
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0129	0.1399	5.1000e-004	0.0493	4.0000e-004	0.0497	0.0134	3.7000e-004	0.0138	0.0000	45.7542	45.7542	1.0500e-003	0.0000	45.7806
Total	0.0217	0.0192	0.1412	5.2000e-004	0.1000	4.0000e-004	0.1004	0.0185	3.7000e-004	0.0189	0.0000	47.1007	47.1007	1.2000e-003	0.0000	47.1308

3.10 Phase 2 Surface Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0688	0.4687	0.5938	1.7000e-003		0.0196	0.0196		0.0180	0.0180	0.0000	149.4191	149.4191	0.0483	0.0000	150.6272

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0688	0.4687	0.5938	1.7000e-003		0.0196	0.0196		0.0180	0.0180	0.0000	149.4191	149.4191	0.0483	0.0000	150.6272

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0456	0.0273	0.2960	1.0700e-003	0.1347	8.6000e-004	0.1356	0.0358	7.9000e-004	0.0366	0.0000	96.8343	96.8343	2.2300e-003	0.0000	96.8901
Total	0.0456	0.0273	0.2960	1.0700e-003	0.1347	8.6000e-004	0.1356	0.0358	7.9000e-004	0.0366	0.0000	96.8343	96.8343	2.2300e-003	0.0000	96.8901

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0213	0.1035	0.8898	1.7000e-003		2.9100e-003	2.9100e-003		2.9000e-003	2.9000e-003	0.0000	149.4189	149.4189	0.0483	0.0000	150.6270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0213	0.1035	0.8898	1.7000e-003		2.9100e-003	2.9100e-003		2.9000e-003	2.9000e-003	0.0000	149.4189	149.4189	0.0483	0.0000	150.6270

Mitigated Construction Off-Site

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0337	2.0000e-004	0.0339	8.9500e-003	1.9000e-004	9.1400e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107
Total	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0337	2.0000e-004	0.0339	8.9500e-003	1.9000e-004	9.1400e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0259	0.2225	4.3000e-004		7.3000e-004	7.3000e-004		7.2000e-004	7.2000e-004	0.0000	37.3547	37.3547	0.0121	0.0000	37.6568
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.3200e-003	0.0259	0.2225	4.3000e-004		7.3000e-004	7.3000e-004		7.2000e-004	7.2000e-004	0.0000	37.3547	37.3547	0.0121	0.0000	37.6568

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0261	2.0000e-004	0.0263	7.0900e-003	1.9000e-004	7.2700e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107
Total	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0261	2.0000e-004	0.0263	7.0900e-003	1.9000e-004	7.2700e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107

3.11 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

Off-Road	9.1400e-003	0.0652	0.2912	4.9000e-004		2.4400e-003	2.4400e-003		2.3000e-003	2.3000e-003	0.0000	43.0346	43.0346	0.0139	0.0000	43.3826
Total	9.1400e-003	0.0652	0.2912	4.9000e-004	0.0427	2.4400e-003	0.0451	0.0115	2.3000e-003	0.0138	0.0000	43.0346	43.0346	0.0139	0.0000	43.3826

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7100e-003	3.8000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3664	0.3664	4.0000e-005	0.0000	0.3674
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	3.0000e-004	1.8700e-003	2.1400e-003	1.0000e-005	9.0700e-003	1.0000e-005	9.0800e-003	1.0200e-003	0.0000	1.0200e-003	0.0000	0.9428	0.9428	5.0000e-005	0.0000	0.9441

3.12 Phase 3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4725	0.0000	0.4725	0.2109	0.0000	0.2109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4538	4.2872	3.2102	9.8400e-003		0.1651	0.1651		0.1519	0.1519	0.0000	864.0402	864.0402	0.2795	0.0000	871.0264
Total	0.4538	4.2872	3.2102	9.8400e-003	0.4725	0.1651	0.6377	0.2109	0.1519	0.3628	0.0000	864.0402	864.0402	0.2795	0.0000	871.0264

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7800e-003	0.2524	0.0555	5.4000e-004	17.0668	1.7000e-004	17.0670	1.7048	1.6000e-004	1.7049	0.0000	53.9830	53.9830	5.9200e-003	0.0000	54.1309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	9.6600e-003	0.1048	3.8000e-004	0.0477	3.0000e-004	0.0480	0.0127	2.8000e-004	0.0130	0.0000	34.2926	34.2926	7.9000e-004	0.0000	34.3124
Total	0.0209	0.2620	0.1603	9.2000e-004	17.1145	4.7000e-004	17.1150	1.7175	4.4000e-004	1.7179	0.0000	88.2756	88.2756	6.7100e-003	0.0000	88.4433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1161	0.0000	0.1161	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1212	0.5281	4.4233	9.8400e-003		0.0163	0.0163		0.0163	0.0163	0.0000	864.0392	864.0392	0.2795	0.0000	871.0254
Total	0.1212	0.5281	4.4233	9.8400e-003	0.1161	0.0163	0.1324	0.0518	0.0163	0.0681	0.0000	864.0392	864.0392	0.2795	0.0000	871.0254

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7800e-003	0.2524	0.0555	5.4000e-004	3.6631	1.7000e-004	3.6633	0.3665	1.6000e-004	0.3666	0.0000	53.9830	53.9830	5.9200e-003	0.0000	54.1309

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	9.6600e-003	0.1048	3.8000e-004	0.0370	3.0000e-004	0.0373	0.0100	2.8000e-004	0.0103	0.0000	34.2926	34.2926	7.9000e-004	0.0000	34.3124
Total	0.0209	0.2620	0.1603	9.2000e-004	3.7001	4.7000e-004	3.7006	0.3765	4.4000e-004	0.3769	0.0000	88.2756	88.2756	6.7100e-003	0.0000	88.4433

3.12 Phase 3 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6902	0.0000	0.6902	0.3305	0.0000	0.3305	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7267	6.8648	5.1403	0.0158		0.2644	0.2644		0.2433	0.2433	0.0000	1,383.5245	1,383.5245	0.4475	0.0000	1,394.7110
Total	0.7267	6.8648	5.1403	0.0158	0.6902	0.2644	0.9546	0.3305	0.2433	0.5738	0.0000	1,383.5245	1,383.5245	0.4475	0.0000	1,394.7110

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5300e-003	0.3986	0.0893	8.5000e-004	17.0679	2.6000e-004	17.0682	1.7052	2.5000e-004	1.7055	0.0000	85.7791	85.7791	9.3000e-003	0.0000	86.0115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0144	0.1583	5.9000e-004	0.0764	4.6000e-004	0.0769	0.0203	4.2000e-004	0.0207	0.0000	53.0708	53.0708	1.1800e-003	0.0000	53.1004
Total	0.0323	0.4131	0.2476	1.4400e-003	17.1443	7.2000e-004	17.1451	1.7255	6.7000e-004	1.7262	0.0000	138.8499	138.8499	0.0105	0.0000	139.1119

Mitigated Construction On-Site

Off-Road	0.1559	1.4729	1.1029	3.3800e-003		0.0567	0.0567		0.0522	0.0522	0.0000	296.8482	296.8482	0.0960	0.0000	299.2483
Total	0.1559	1.4729	1.1029	3.3800e-003	0.2349	0.0567	0.2917	0.0803	0.0522	0.1325	0.0000	296.8482	296.8482	0.0960	0.0000	299.2483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5900e-003	0.0845	0.0194	1.8000e-004	17.0655	5.0000e-005	17.0656	1.7043	5.0000e-005	1.7044	0.0000	18.2790	18.2790	1.9600e-003	0.0000	18.3280
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0600e-003	2.9000e-003	0.0322	1.2000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003	0.0000	11.0405	11.0405	2.4000e-004	0.0000	11.0465
Total	6.6500e-003	0.0874	0.0516	3.0000e-004	17.0819	1.4000e-004	17.0820	1.7087	1.3000e-004	1.7088	0.0000	29.3195	29.3195	2.2000e-003	0.0000	29.3745

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0577	0.0000	0.0577	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.1814	1.5197	3.3800e-003		5.6000e-003	5.6000e-003		5.5900e-003	5.5900e-003	0.0000	296.8478	296.8478	0.0960	0.0000	299.2480
Total	0.0417	0.1814	1.5197	3.3800e-003	0.0577	5.6000e-003	0.0633	0.0197	5.5900e-003	0.0253	0.0000	296.8478	296.8478	0.0960	0.0000	299.2480

Mitigated Construction Off-Site

Vendor	0.0115	0.4156	0.1258	1.4300e-003	0.0378	4.8000e-004	0.0383	0.0109	4.6000e-004	0.0114	0.0000	141.1099	141.1099	9.4500e-003	0.0000	141.3462
Worker	0.0551	0.0329	0.3574	1.2900e-003	0.1627	1.0300e-003	0.1637	0.0432	9.5000e-004	0.0442	0.0000	116.9274	116.9274	2.6900e-003	0.0000	116.9948
Total	0.0666	0.4486	0.4832	2.7200e-003	0.2005	1.5100e-003	0.2020	0.0541	1.4100e-003	0.0555	0.0000	258.0374	258.0374	0.0121	0.0000	258.3409

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0468	0.3887	0.7798	1.3100e-003		0.0162	0.0162		0.0154	0.0154	0.0000	112.9386	112.9386	0.0295	0.0000	113.6750
Total	0.0468	0.3887	0.7798	1.3100e-003		0.0162	0.0162		0.0154	0.0154	0.0000	112.9386	112.9386	0.0295	0.0000	113.6750

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0115	0.4156	0.1258	1.4300e-003	0.0308	4.8000e-004	0.0313	9.2000e-003	4.6000e-004	9.6600e-003	0.0000	141.1099	141.1099	9.4500e-003	0.0000	141.3462
Worker	0.0551	0.0329	0.3574	1.2900e-003	0.1261	1.0300e-003	0.1271	0.0342	9.5000e-004	0.0352	0.0000	116.9274	116.9274	2.6900e-003	0.0000	116.9948
Total	0.0666	0.4486	0.4832	2.7200e-003	0.1569	1.5100e-003	0.1584	0.0434	1.4100e-003	0.0449	0.0000	258.0374	258.0374	0.0121	0.0000	258.3409

3.13 Phase 2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887
Total	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0426	1.5502	0.4699	5.3900e-003	0.1429	1.7600e-003	0.1447	0.0413	1.6800e-003	0.0429	0.0000	530.9464	530.9464	0.0354	0.0000	531.8319
Worker	0.1994	0.1163	1.2752	4.7200e-003	0.6153	3.7000e-003	0.6190	0.1635	3.4000e-003	0.1669	0.0000	427.4744	427.4744	9.5400e-003	0.0000	427.7129
Total	0.2420	1.6665	1.7451	0.0101	0.7583	5.4600e-003	0.7637	0.2048	5.0800e-003	0.2099	0.0000	958.4207	958.4207	0.0450	0.0000	959.5448

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1772	1.4702	2.9498	4.9400e-003		0.0614	0.0614		0.0582	0.0582	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882

Total	0.1772	1.4702	2.9498	4.9400e-003		0.0614	0.0614		0.0582	0.0582	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0426	1.5502	0.4699	5.3900e-003	0.1166	1.7600e-003	0.1184	0.0348	1.6800e-003	0.0365	0.0000	530.9464	530.9464	0.0354	0.0000	531.8319
Worker	0.1994	0.1163	1.2752	4.7200e-003	0.4768	3.7000e-003	0.4805	0.1295	3.4000e-003	0.1329	0.0000	427.4744	427.4744	9.5400e-003	0.0000	427.7129
Total	0.2420	1.6665	1.7451	0.0101	0.5935	5.4600e-003	0.5989	0.1643	5.0800e-003	0.1694	0.0000	958.4207	958.4207	0.0450	0.0000	959.5448

3.13 Phase 2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2336	1.9630	2.7031	4.9200e-003		0.0830	0.0830		0.0777	0.0777	0.0000	425.5662	425.5662	0.1110	0.0000	428.3412
Total	0.2336	1.9630	2.7031	4.9200e-003		0.0830	0.0830		0.0777	0.0777	0.0000	425.5662	425.5662	0.1110	0.0000	428.3412

Unmitigated Construction Off-Site

Vendor	0.0417	1.5261	0.4651	5.3400e-003	0.1162	1.7200e-003	0.1179	0.0347	1.6400e-003	0.0363	0.0000	526.5660	526.5660	0.0350	0.0000	527.4408
Worker	0.1892	0.1086	1.2037	4.5600e-003	0.4750	3.4100e-003	0.4784	0.1290	3.1400e-003	0.1322	0.0000	412.8855	412.8855	8.9600e-003	0.0000	413.1094
Total	0.2309	1.6347	1.6688	9.9000e-003	0.5912	5.1300e-003	0.5963	0.1637	4.7800e-003	0.1685	0.0000	939.4515	939.4515	0.0440	0.0000	940.5502

3.13 Phase 2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1159	0.9739	1.3412	2.4400e-003		0.0412	0.0412		0.0386	0.0386	0.0000	211.1463	211.1463	0.0551	0.0000	212.5231
Total	0.1159	0.9739	1.3412	2.4400e-003		0.0412	0.0412		0.0386	0.0386	0.0000	211.1463	211.1463	0.0551	0.0000	212.5231

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.7479	0.2291	2.6400e-003	0.0706	8.3000e-004	0.0715	0.0204	7.9000e-004	0.0212	0.0000	260.1177	260.1177	0.0173	0.0000	260.5491
Worker	0.0888	0.0505	0.5658	2.2000e-003	0.3041	1.5700e-003	0.3057	0.0808	1.4500e-003	0.0823	0.0000	199.2056	199.2056	4.1900e-003	0.0000	199.3104
Total	0.1091	0.7985	0.7949	4.8400e-003	0.3748	2.4000e-003	0.3772	0.1012	2.2400e-003	0.1035	0.0000	459.3233	459.3233	0.0215	0.0000	459.8595

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0876	0.7267	1.4579	2.4400e-003		0.0304	0.0304		0.0288	0.0288	0.0000	211.1461	211.1461	0.0551	0.0000	212.5229
Total	0.0876	0.7267	1.4579	2.4400e-003		0.0304	0.0304		0.0288	0.0288	0.0000	211.1461	211.1461	0.0551	0.0000	212.5229

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.7479	0.2291	2.6400e-003	0.0577	8.3000e-004	0.0585	0.0172	7.9000e-004	0.0180	0.0000	260.1177	260.1177	0.0173	0.0000	260.5491
Worker	0.0888	0.0505	0.5658	2.2000e-003	0.2357	1.5700e-003	0.2372	0.0640	1.4500e-003	0.0655	0.0000	199.2056	199.2056	4.1900e-003	0.0000	199.3104
Total	0.1091	0.7985	0.7949	4.8400e-003	0.2933	2.4000e-003	0.2957	0.0812	2.2400e-003	0.0835	0.0000	459.3233	459.3233	0.0215	0.0000	459.8595

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	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	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	5,252.23	5,706.52	4837.79	15,012,965	15,012,965
Apartments Low Rise	2,866.65	3,114.60	2640.45	8,194,027	8,194,027
City Park	59.35	714.35	525.64	468,666	468,666
City Park	54.62	657.48	483.79	431,352	431,352
City Park	23.44	282.10	207.58	185,078	185,078
Elementary School	1,290.00	0.00	0.00	2,031,694	2,031,694
Regional Shopping Center	2,562.00	2,998.20	1514.40	4,338,828	4,338,828
Retirement Community	1,068.00	903.35	867.75	2,900,621	2,900,621
Single Family Housing	12,109.44	12,605.52	10964.64	34,311,512	34,311,512
User Defined Industrial	0.00	0.00	0.00		
Total	25,285.72	26,982.12	22,042.03	67,874,743	67,874,743

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	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
City Park	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
Elementary School	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
Regional Shopping Center	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
Retirement Community	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
Single Family Housing	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
User Defined Industrial	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

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,108.603 2	6,108.603 2	0.2459	0.0509	6,129.909 4
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,108.603 2	6,108.603 2	0.2459	0.0509	6,129.909 4
NaturalGas Mitigated	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.608 3	2,625.608 3	0.0503	0.0481	2,641.211 0
NaturalGas Unmitigated	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.608 3	2,625.608 3	0.0503	0.0481	2,641.211 0

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	8.94672e+006	0.0482	0.4123	0.1754	2.6300e-003		0.0333	0.0333		0.0333	0.0333	0.0000	477.4308	477.4308	9.1500e-003	8.7500e-003	480.2679
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546
Single Family Housing	2.97482e+007	0.1604	1.3708	0.5833	8.7500e-003		0.1108	0.1108		0.1108	0.1108	0.0000	1,587.4752	1,587.4752	0.0304	0.0291	1,596.9088
User Defined Industrial	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		0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	8.94672e+006	0.0482	0.4123	0.1754	2.6300e-003		0.0333	0.0333		0.0333	0.0333	0.0000	477.4308	477.4308	9.1500e-003	8.7500e-003	480.2679
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546

Single Family Housing	2.97482e+007	0.1604	1.3708	0.5833	8.7500e-003		0.1108	0.1108		0.1108	0.1108	0.0000	1,587.4752	1,587.4752	0.0304	0.0291	1,596.9088
User Defined Industrial	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		0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110

5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.84613e+006	603.3319	0.0243	5.0200e-003	605.4363
Apartments Low Rise	3.38245e+006	1,105.4150	0.0445	9.2100e-003	1,109.2706
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	143.1689	5.7600e-003	1.1900e-003	143.6683
Regional Shopping Center	753600	246.2831	9.9100e-003	2.0500e-003	247.1421
Retirement Community	1.97345e+006	644.9409	0.0260	5.3700e-003	647.1904
Single Family Housing	1.0298e+007	3,365.4634	0.1355	0.0280	3,377.2018
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		6,108.6032	0.2459	0.0509	6,129.9094

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

Apartments Low Rise	1.84613e+006	603.3319	0.0243	5.0200e-003	605.4363
Apartments Low Rise	3.38245e+006	1,105.4150	0.0445	9.2100e-003	1,109.2706
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	143.1689	5.7600e-003	1.1900e-003	143.6683
Regional Shopping Center	753600	246.2831	9.9100e-003	2.0500e-003	247.1421
Retirement Community	1.97345e+006	644.9409	0.0260	5.3700e-003	647.1904
Single Family Housing	1.0298e+007	3,365.4634	0.1355	0.0280	3,377.2018
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		6,108.6032	0.2459	0.0509	6,129.9094

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	tons/yr										MT/yr					
Mitigated	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475
Unmitigated	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	16.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	262.3418	5.1232	323.8325	0.5867		45.4044	45.4044		45.4044	45.4044	4,318.7962	1,811.2401	6,130.0363	3.9855	0.3397	6,330.9069
Landscaping	0.6534	0.2518	21.8301	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.7881	35.7881	0.0341	0.0000	36.6406
Total	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	16.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	262.3418	5.1232	323.8325	0.5867		45.4044	45.4044		45.4044	45.4044	4,318.7962	1,811.2401	6,130.0363	3.9855	0.3397	6,330.9069
Landscaping	0.6534	0.2518	21.8301	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.7881	35.7881	0.0341	0.0000	36.6406
Total	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.7962	1,847.0282	6,165.8244	4.0196	0.3397	6,367.5475

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,696.8285	6.5504	0.1667	1,910.2724
Unmitigated	1,696.8285	6.5504	0.1667	1,910.2724

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	80.2698 / 50.6048	550.7824	2.6367	0.0661	636.4088
City Park	0 / 86.6207	314.5064	0.0127	2.6200e-003	315.6033
Elementary School	2.42424 / 6.23376	33.7190	0.0803	2.1400e-003	36.3646
Regional Shopping Center	4.44435 / 2.72396	30.2127	0.1460	3.6600e-003	34.9526
Retirement Community	28.9935 / 18.2785	198.9433	0.9524	0.0239	229.8717
Single Family Housing	82.8759 / 52.2479	568.6649	2.7223	0.0683	657.0714
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,696.8285	6.5504	0.1667	1,910.2724

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
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Land Use	Mgal	MT/yr			
Apartments Low Rise	80.2698 / 50.6048	550.7824	2.6367	0.0661	636.4088
City Park	0 / 86.6207	314.5064	0.0127	2.6200e-003	315.6033
Elementary School	2.42424 / 6.23376	33.7190	0.0803	2.1400e-003	36.3646
Regional Shopping Center	4.44435 / 2.72396	30.2127	0.1460	3.6600e-003	34.9526
Retirement Community	28.9935 / 18.2785	198.9433	0.9524	0.0239	229.8717
Single Family Housing	82.8759 / 52.2479	568.6649	2.7223	0.0683	657.0714
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,696.8285	6.5504	0.1667	1,910.2724

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	510.4715	30.1680	0.0000	1,264.6716
Unmitigated	510.4715	30.1680	0.0000	1,264.6716

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	566.72	115.0390	6.7986	0.0000	285.0044
City Park	6.25	1.2687	0.0750	0.0000	3.1431
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1491.58	302.7773	17.8936	0.0000	750.1179
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		510.4715	30.1680	0.0000	1,264.6716

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	566.72	115.0390	6.7986	0.0000	285.0044
City Park	6.25	1.2687	0.0750	0.0000	3.1431
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1491.58	302.7773	17.8936	0.0000	750.1179

User Defined	0	0.0000	0.0000	0.0000	0.0000
Industrial					
Total		510.4715	30.1680	0.0000	1,264.6716

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Fanita Ranch Construction - San Diego County APCD Air District, Summer

**Fanita Ranch Construction Phase 1-2
San Diego County APCD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	19.20	83,603.37	0
User Defined Industrial	1.00	User Defined Unit	69.60	0.00	0
City Park	31.40	Acre	31.40	1,367,784.00	0
City Park	28.90	Acre	28.90	1,258,884.00	0
City Park	12.40	Acre	12.40	540,144.00	0
Apartments Low Rise	797.00	Dwelling Unit	63.90	797,000.00	2279
Apartments Low Rise	435.00	Dwelling Unit	27.19	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,272.00	Dwelling Unit	248.00	2,289,600.00	3638
Regional Shopping Center	60.00	1000sqft	9.31	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Construction Phase - Construction phasing provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Trips and VMT - assume 1 hauling trip per day, 10 miles per trip (cut and fill balanced onsite)

On-road Fugitive Dust - assume 50% onsite roadways for hauling trips are paved

Grading - grading acreage provided by developer

Construction Off-road Equipment Mitigation - fugitive dust control

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_Nonresidential_Exterior	76802	0
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tblAreaCoating	Area_Residential_Interior	8032365	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	44.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	33.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	930.00	480.00
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tblConstructionPhase	NumDays	360.00	40.00

tblConstructionPhase	NumDays	360.00	40.00
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tblFleetMix	HHD	0.03	0.00
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tblFleetMix	LHD1	0.01	0.00

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tblGrading	AcresOfGrading	0.00	253.00

tblGrading	AcresOfGrading	0.00	208.50
tblGrading	AcresOfGrading	0.00	240.00
tblLandUse	LotAcreage	1.92	19.20
tblLandUse	LotAcreage	0.00	69.60
tblLandUse	LotAcreage	49.81	63.90
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tblLandUse	LotAcreage	1.38	9.31
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tblOffRoadEquipment	HorsePower	97.00	164.00
tblOffRoadEquipment	HorsePower	97.00	170.00
tblOffRoadEquipment	HorsePower	97.00	170.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	0.20
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tblOffRoadEquipment	UsageHours	8.00	2.60
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tblOffRoadEquipment	UsageHours	8.00	0.20
tblOffRoadEquipment	UsageHours	8.00	7.10
tblOffRoadEquipment	UsageHours	8.00	7.10

tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
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tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	VendorTripNumber	858.00	165.00
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tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	588.00
tblTripsAndVMT	WorkerTripNumber	3,050.00	1,099.00
tblTripsAndVMT	WorkerTripNumber	15.00	5.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.1792	72.7519	41.4443	0.1182	564.1958	2.4616	566.6574	57.4349	2.2651	59.7000	0.0000	11,623.7910	11,623.7910	3.2897	0.0000	11,706.0335
2022	7.6122	78.6474	57.9438	0.1706	210.6859	2.7237	213.4096	22.2829	2.5061	24.7890	0.0000	16,728.4601	16,728.4601	4.6889	0.0000	16,845.6821
2023	9.2338	72.0975	83.2280	0.2845	6,454.7217	2.5373	6,457.2589	645.7668	2.3345	648.1013	0.0000	28,700.5369	28,700.5369	4.6663	0.0000	28,794.2846
2024	26.3951	243.8924	195.9836	0.5992	312.9983	8.5287	321.5270	41.9590	7.8602	49.8192	0.0000	59,249.4537	59,249.4537	13.6594	0.0000	59,590.9392
2025	25.3392	220.6050	200.3202	0.6394	151.1492	7.6210	158.7702	25.7410	7.0233	32.7643	0.0000	63,120.4598	63,120.4598	15.1103	0.0000	63,498.2159

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Site Preparation	Site Preparation	7/1/2021	8/25/2021	5	40	
2	Phase 1 Grading	Grading	8/26/2021	1/11/2023	5	360	
3	Phase 1 Utilities	Trenching	8/29/2022	11/17/2023	5	320	
4	Phase 1 Surface Improvements	Paving	2/27/2023	11/1/2024	5	440	
5	Phase 1 Building Construction	Building Construction	9/18/2023	3/26/2027	5	920	
6	Phase 2 Site Preparation	Site Preparation	7/1/2024	8/23/2024	5	40	
7	Phase 2 Grading	Grading	8/26/2024	11/14/2025	5	320	
8	Phase 2 Utilities	Trenching	8/25/2025	7/24/2026	5	240	
9	Phase 2 Surface Improvements	Paving	2/23/2026	3/19/2027	5	280	
10	Phase 3 Site Preparation	Site Preparation	3/24/2026	5/18/2026	5	40	
11	Phase 3 Grading	Grading	5/19/2026	3/20/2028	5	480	
12	Phase 2 Building Construction	Building Construction	9/28/2026	6/28/2029	5	720	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Site Preparation	Rubber Tired Dozers	1	5.10	436	0.40
Phase 1 Site Preparation	Rubber Tired Loaders	1	5.10	249	0.36
Phase 1 Grading	Excavators	1	0.20	760	0.38
Phase 1 Grading	Graders	1	2.30	275	0.41
Phase 1 Grading	Graders	1	0.20	275	0.41
Phase 1 Grading	Off-Highway Trucks	3	2.30	300	0.38
Phase 1 Grading	Off-Highway Trucks	3	8.00	1025	0.38

Phase 1 Grading	Off-Highway Trucks	2	0.20	300	0.38
Phase 1 Grading	Plate Compactors	1	2.30	554	0.43
Phase 1 Grading	Rubber Tired Dozers	1	2.30	600	0.40
Phase 1 Grading	Rubber Tired Dozers	1	2.30	354	0.40
Phase 1 Grading	Rubber Tired Dozers	1	2.30	436	0.40
Phase 1 Grading	Rubber Tired Dozers	1	0.20	600	0.40
Phase 1 Grading	Rubber Tired Dozers	2	0.20	436	0.40
Phase 1 Grading	Scrapers	10	2.30	600	0.48
Phase 1 Grading	Tractors/Loaders/Backhoes	1	0.60	249	0.37
Phase 1 Utilities	Excavators	1	1.10	417	0.38
Phase 1 Utilities	Excavators	1	0.50	235	0.38
Phase 1 Utilities	Excavators	1	1.00	235	0.38
Phase 1 Utilities	Excavators	1	2.90	235	0.38
Phase 1 Utilities	Excavators	1	0.90	417	0.38
Phase 1 Utilities	Excavators	1	0.50	235	0.38
Phase 1 Utilities	Excavators	1	7.00	235	0.38
Phase 1 Utilities	Excavators	1	0.40	417	0.38
Phase 1 Utilities	Excavators	1	0.20	235	0.38
Phase 1 Utilities	Excavators	1	0.30	235	0.38
Phase 1 Utilities	Excavators	1	2.90	140	0.38
Phase 1 Utilities	Excavators	1	1.70	85	0.38
Phase 1 Utilities	Excavators	1	2.00	417	0.38
Phase 1 Utilities	Excavators	1	1.00	235	0.38
Phase 1 Utilities	Excavators	1	3.00	235	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.00	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.30	170	0.38

Phase 1 Utilities	Off-Highway Trucks	1	1.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	2.40	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 1 Utilities	Off-Highway Trucks	1	0.50	450	0.38
Phase 1 Utilities	Off-Highway Trucks	1	1.10	170	0.38
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.80	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.70	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	3.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.30	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	0.20	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	2.50	164	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Utilities	Tractors/Loaders/Backhoes	1	1.50	170	0.37
Phase 1 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 1 Surface Improvements	Graders	1	0.60	150	0.41
Phase 1 Surface Improvements	Graders	1	0.60	150	0.41
Phase 1 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 1 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 1 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 1 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 1 Surface Improvements	Rollers	1	0.60	102	0.38

Phase 1 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 1 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 1 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 1 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 1 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 1 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 1 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 2 Site Preparation	Rubber Tired Dozers	1	4.80	436	0.40
Phase 2 Site Preparation	Rubber Tired Loaders	1	4.80	249	0.36
Phase 2 Grading	Excavators	1	6.00	760	0.38
Phase 2 Grading	Graders	1	7.10	275	0.41
Phase 2 Grading	Graders	1	6.00	275	0.41
Phase 2 Grading	Off-Highway Trucks	3	7.10	300	0.38
Phase 2 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 2 Grading	Off-Highway Trucks	2	6.00	300	0.38
Phase 2 Grading	Plate Compactors	1	7.10	554	0.43
Phase 2 Grading	Rubber Tired Dozers	1	7.10	600	0.40
Phase 2 Grading	Rubber Tired Dozers	1	7.10	354	0.40
Phase 2 Grading	Rubber Tired Dozers	1	7.10	436	0.40
Phase 2 Grading	Rubber Tired Dozers	1	6.00	600	0.40
Phase 2 Grading	Rubber Tired Dozers	2	6.00	436	0.40
Phase 2 Grading	Scrapers	10	7.10	600	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	1	1.80	249	0.37
Phase 2 Utilities	Excavators	1	2.10	417	0.38
Phase 2 Utilities	Excavators	1	1.10	235	0.38
Phase 2 Utilities	Excavators	1	2.00	235	0.38
Phase 2 Utilities	Excavators	1	3.70	235	0.38

Phase 2 Utilities	Excavators	1	1.50	417	0.38
Phase 2 Utilities	Excavators	1	0.80	235	0.38
Phase 2 Utilities	Excavators	1	9.00	235	0.38
Phase 2 Utilities	Excavators	1	0.60	417	0.38
Phase 2 Utilities	Excavators	1	0.30	235	0.38
Phase 2 Utilities	Excavators	1	1.00	235	0.38
Phase 2 Utilities	Excavators	1	4.20	140	0.38
Phase 2 Utilities	Excavators	1	2.50	85	0.38
Phase 2 Utilities	Excavators	1	2.40	417	0.38
Phase 2 Utilities	Excavators	1	1.20	235	0.38
Phase 2 Utilities	Excavators	1	3.70	235	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.60	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.30	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.40	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	3.10	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Utilities	Off-Highway Trucks	1	0.60	450	0.38
Phase 2 Utilities	Off-Highway Trucks	1	1.30	170	0.38
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.60	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.80	170	0.37

Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	4.50	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	0.40	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	0.50	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	3.60	164	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.80	170	0.37
Phase 2 Utilities	Tractors/Loaders/Backhoes	1	1.90	170	0.37
Phase 2 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 2 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 2 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 2 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 2 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 2 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 3 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 3 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 3 Grading	Excavators	1	1.10	760	0.38
Phase 3 Grading	Graders	1	2.60	275	0.41
Phase 3 Grading	Graders	1	1.10	275	0.41
Phase 3 Grading	Off-Highway Trucks	3	2.60	300	0.38

Phase 3 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 3 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 3 Grading	Plate Compactors	1	2.60	554	0.43
Phase 3 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 3 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 3 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 3 Grading	Scrapers	10	2.60	600	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 2 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Cranes	1	7.00	231	0.29
Phase 1 Building Construction	Cranes	1	7.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	29	73.00	0.00	23,354.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Utilities	43	108.00	0.00	320.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	18	1,099.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	29	73.00	0.00	11,677.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Utilities	43	108.00	0.00	240.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	29	73.00	0.00	17,355.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	18	588.00	165.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Phase 1 Site Preparation - 2021

Unmitigated Construction On-Site

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

Fugitive Dust					10.5467	0.0000	10.5467	2.8345	0.0000	2.8345			0.0000			0.0000
Off-Road	1.9826	20.5678	18.2151	0.0270		1.0029	1.0029		0.9227	0.9227		2,616.0973	2,616.0973	0.8461		2,637.2497
Total	1.9826	20.5678	18.2151	0.0270	10.5467	1.0029	11.5496	2.8345	0.9227	3.7572		2,616.0973	2,616.0973	0.8461		2,637.2497

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4800e-003	0.1181	0.0193	2.0000e-004	2.2092	1.6000e-004	2.2093	0.2208	1.5000e-004	0.2209		22.3738	22.3738	2.7000e-003		22.4413
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0173	0.0112	0.1326	4.1000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112		40.7220	40.7220	1.1600e-003		40.7511
Total	0.0198	0.1293	0.1519	6.1000e-004	2.2502	4.4000e-004	2.2507	0.2317	4.1000e-004	0.2321		63.0959	63.0959	3.8600e-003		63.1924

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5913	0.0000	2.5913	0.6965	0.0000	0.6965			0.0000			0.0000
Off-Road	0.5809	4.3387	15.7621	0.0270		0.2233	0.2233		0.2083	0.2083	0.0000	2,616.0973	2,616.0973	0.8461		2,637.2497
Total	0.5809	4.3387	15.7621	0.0270	2.5913	0.2233	2.8146	0.6965	0.2083	0.9047	0.0000	2,616.0973	2,616.0973	0.8461		2,637.2497

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	2.4800e-003	0.1181	0.0193	2.0000e-004	0.4744	1.6000e-004	0.4746	0.0476	1.5000e-004	0.0477			22.3738	22.3738	2.7000e-003		22.4413
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000		0.0000
Worker	0.0173	0.0112	0.1326	4.1000e-004	0.0318	2.8000e-004	0.0321	8.6200e-003	2.6000e-004	8.8800e-003			40.7220	40.7220	1.1600e-003		40.7511
Total	0.0198	0.1293	0.1519	6.1000e-004	0.5062	4.4000e-004	0.5067	0.0562	4.1000e-004	0.0566			63.0959	63.0959	3.8600e-003		63.1924

3.3 Phase 1 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.9283	0.0000	2.9283	1.2804	0.0000	1.2804			0.0000			0.0000	
Off-Road	5.7659	64.9269	38.2560	0.0989		2.4473	2.4473		2.2515	2.2515			9,577.8095	9,577.8095	3.0977		9,655.2509
Total	5.7659	64.9269	38.2560	0.0989	2.9283	2.4473	5.3756	1.2804	2.2515	3.5320			9,577.8095	9,577.8095	3.0977		9,655.2509

Unmitigated Construction Off-Site

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

Hauling	0.1608	7.6609	1.2520	0.0133	560.6678	0.0101	560.6780	55.9954	9.7000e-003	56.0051		1,451.4397	1,451.4397	0.1751		1,455.8166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2525	0.1641	1.9362	5.9700e-003	0.5997	4.1400e-003	0.6038	0.1591	3.8200e-003	0.1629		594.5418	594.5418	0.0170		594.9660
Total	0.4133	7.8250	3.1882	0.0192	561.2675	0.0143	561.2818	56.1545	0.0135	56.1680		2,045.9816	2,045.9816	0.1920		2,050.7826

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7195	0.0000	0.7195	0.3146	0.0000	0.3146			0.0000			0.0000
Off-Road	1.2233	5.3756	44.5207	0.0989		0.1658	0.1658		0.1654	0.1654	0.0000	9,577.8094	9,577.8094	3.0977		9,655.2509
Total	1.2233	5.3756	44.5207	0.0989	0.7195	0.1658	0.8853	0.3146	0.1654	0.4800	0.0000	9,577.8094	9,577.8094	3.0977		9,655.2509

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1608	7.6609	1.2520	0.0133	120.3096	0.0101	120.3197	12.0275	9.7000e-003	12.0372		1,451.4397	1,451.4397	0.1751		1,455.8166
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2525	0.1641	1.9362	5.9700e-003	0.4642	4.1400e-003	0.4683	0.1258	3.8200e-003	0.1296		594.5418	594.5418	0.0170		594.9660
Total	0.4133	7.8250	3.1882	0.0192	120.7738	0.0143	120.7881	12.1533	0.0135	12.1669		2,045.9816	2,045.9816	0.1920		2,050.7826

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9283	0.0000	2.9283	1.2804	0.0000	1.2804			0.0000			0.0000
Off-Road	5.2899	57.4015	35.6048	0.0989		2.1631	2.1631		1.9901	1.9901		9,571.2373	9,571.2373	3.0955		9,648.6256
Total	5.2899	57.4015	35.6048	0.0989	2.9283	2.1631	5.0914	1.2804	1.9901	3.2705		9,571.2373	9,571.2373	3.0955		9,648.6256

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1507	7.2773	1.2241	0.0131	198.4176	8.5600e-003	198.4262	19.8237	8.1900e-003	19.8319		1,435.3141	1,435.3141	0.1680		1,439.5151
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2387	0.1496	1.8005	5.7500e-003	0.5997	4.0500e-003	0.6037	0.1591	3.7300e-003	0.1628		572.7286	572.7286	0.0156		573.1175
Total	0.3894	7.4268	3.0245	0.0188	199.0173	0.0126	199.0299	19.9828	0.0119	19.9947		2,008.0427	2,008.0427	0.1836		2,012.6326

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Fugitive Dust					0.7195	0.0000	0.7195	0.3146	0.0000	0.3146			0.0000			0.0000
Off-Road	1.2221	5.3538	44.5195	0.0989		0.1651	0.1651		0.1648	0.1648	0.0000	9,571.2373	9,571.2373	3.0955		9,648.6256
Total	1.2221	5.3538	44.5195	0.0989	0.7195	0.1651	0.8846	0.3146	0.1648	0.4794	0.0000	9,571.2373	9,571.2373	3.0955		9,648.6256

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1507	7.2773	1.2241	0.0131	42.5986	8.5600e-003	42.6071	4.2659	8.1900e-003	4.2741		1,435.3141	1,435.3141	0.1680		1,439.5151
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2387	0.1496	1.8005	5.7500e-003	0.4642	4.0500e-003	0.4682	0.1258	3.7300e-003	0.1295		572.7286	572.7286	0.0156		573.1175
Total	0.3894	7.4268	3.0245	0.0188	43.0628	0.0126	43.0754	4.3917	0.0119	4.4036		2,008.0427	2,008.0427	0.1836		2,012.6326

3.3 Phase 1 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9283	0.0000	2.9283	1.2804	0.0000	1.2804			0.0000			0.0000
Off-Road	5.1336	53.9428	35.2351	0.0989		2.0462	2.0462		1.8825	1.8825		9,571.7513	9,571.7513	3.0957		9,649.1437
Total	5.1336	53.9428	35.2351	0.0989	2.9283	2.0462	4.9745	1.2804	1.8825	3.1629		9,571.7513	9,571.7513	3.0957		9,649.1437

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1091	5.8597	1.1242	0.0126	6,447.2331	4.2300e-003	6,447.2374	643.7850	4.0400e-003	643.7890		1,385.3089	1,385.3089	0.1479		1,389.0063
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2260	0.1366	1.6725	5.5300e-003	0.5997	3.9700e-003	0.6037	0.1591	3.6600e-003	0.1627		550.8340	550.8340	0.0142		551.1899
Total	0.3351	5.9963	2.7967	0.0181	6,447.8328	8.2000e-003	6,447.8410	643.9440	7.7000e-003	643.9517		1,936.1429	1,936.1429	0.1621		1,940.1963

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7195	0.0000	0.7195	0.3146	0.0000	0.3146			0.0000			0.0000
Off-Road	1.2212	5.3356	44.5188	0.0989		0.1646	0.1646		0.1644	0.1644	0.0000	9,571.7513	9,571.7513	3.0957		9,649.1437
Total	1.2212	5.3356	44.5188	0.0989	0.7195	0.1646	0.8841	0.3146	0.1644	0.4790	0.0000	9,571.7513	9,571.7513	3.0957		9,649.1437

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.1091	5.8597	1.1242	0.0126	1,383.1136	4.2300e-003	1,383.1178	138.1544	4.0400e-003	138.1585		1,385.3089	1,385.3089	0.1479		1,389.0063
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2260	0.1366	1.6725	5.5300e-003	0.4642	3.9700e-003	0.4681	0.1258	3.6600e-003	0.1295		550.8340	550.8340	0.0142		551.1899
Total	0.3351	5.9963	2.7967	0.0181	1,383.5778	8.2000e-003	1,383.5860	138.2802	7.7000e-003	138.2879		1,936.1429	1,936.1429	0.1621		1,940.1963

3.4 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5774	13.4855	16.6319	0.0442		0.5418	0.5418		0.4985	0.4985		4,279.7303	4,279.7303	1.3842		4,314.3341
Total	1.5774	13.4855	16.6319	0.0442		0.5418	0.5418		0.4985	0.4985		4,279.7303	4,279.7303	1.3842		4,314.3341

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3200e-003	0.1122	0.0189	2.0000e-004	7.8531	1.3000e-004	7.8533	0.7843	1.3000e-004	0.7845		22.1253	22.1253	2.5900e-003		22.1900
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3532	0.2213	2.6637	8.5000e-003	0.8872	6.0000e-003	0.8932	0.2353	5.5200e-003	0.2409		847.3245	847.3245	0.0230		847.8998

Total	0.3555	0.3335	2.6826	8.7000e-003	8.7403	6.1300e-003	8.7465	1.0197	5.6500e-003	1.0253		869.4498	869.4498	0.0256		870.0898
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6505	3.4855	24.3153	0.0442		0.1338	0.1338		0.1284	0.1284	0.0000	4,279.7303	4,279.7303	1.3842		4,314.3341
Total	0.6505	3.4855	24.3153	0.0442		0.1338	0.1338		0.1284	0.1284	0.0000	4,279.7303	4,279.7303	1.3842		4,314.3341

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.3200e-003	0.1122	0.0189	2.0000e-004	1.6852	1.3000e-004	1.6853	0.1685	1.3000e-004	0.1686		22.1253	22.1253	2.5900e-003		22.1900
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3532	0.2213	2.6637	8.5000e-003	0.6867	6.0000e-003	0.6927	0.1861	5.5200e-003	0.1916		847.3245	847.3245	0.0230		847.8998
Total	0.3555	0.3335	2.6826	8.7000e-003	2.3719	6.1300e-003	2.3781	0.3546	5.6500e-003	0.3603		869.4498	869.4498	0.0256		870.0898

3.4 Phase 1 Utilities - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4973	11.8660	16.5950	0.0443		0.4769	0.4769		0.4388	0.4388		4,282.8423	4,282.8423	1.3852		4,317.4713
Total	1.4973	11.8660	16.5950	0.0443		0.4769	0.4769		0.4388	0.4388		4,282.8423	4,282.8423	1.3852		4,317.4713

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6800e-003	0.0903	0.0173	1.9000e-004	3.0734	7.0000e-005	3.0734	0.3071	6.0000e-005	0.3071		21.3544	21.3544	2.2800e-003		21.4114
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3344	0.2021	2.4744	8.1700e-003	0.8872	5.8800e-003	0.8931	0.2353	5.4100e-003	0.2407		814.9325	814.9325	0.0211		815.4591
Total	0.3361	0.2924	2.4917	8.3600e-003	3.9606	5.9500e-003	3.9665	0.5424	5.4700e-003	0.5479		836.2869	836.2869	0.0233		836.8705

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6387	3.3112	24.3140	0.0443		0.1242	0.1242		0.1196	0.1196	0.0000	4,282.8423	4,282.8423	1.3852		4,317.4713
Total	0.6387	3.3112	24.3140	0.0443		0.1242	0.1242		0.1196	0.1196	0.0000	4,282.8423	4,282.8423	1.3852		4,317.4713

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6800e-003	0.0903	0.0173	1.9000e-004	0.6598	7.0000e-005	0.6599	0.0661	6.0000e-005	0.0661		21.3544	21.3544	2.2800e-003		21.4114
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3344	0.2021	2.4744	8.1700e-003	0.6867	5.8800e-003	0.6926	0.1861	5.4100e-003	0.1915		814.9325	814.9325	0.0211		815.4591
Total	0.3361	0.2924	2.4917	8.3600e-003	1.3465	5.9500e-003	1.3525	0.2522	5.4700e-003	0.2577		836.2869	836.2869	0.0233		836.8705

3.5 Phase 1 Surface Improvements - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6697	5.1812	5.4059	0.0152		0.2213	0.2213		0.2036	0.2036		1,470.7456	1,470.7456	0.4757		1,482.6373
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6697	5.1812	5.4059	0.0152		0.2213	0.2213		0.2036	0.2036		1,470.7456	1,470.7456	0.4757		1,482.6373

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4644	0.2807	3.4366	0.0114	1.2322	8.1600e-003	1.2404	0.3268	7.5200e-003	0.3344		1,131.8507	1,131.8507	0.0293		1,132.5821
Total	0.4644	0.2807	3.4366	0.0114	1.2322	8.1600e-003	1.2404	0.3268	7.5200e-003	0.3344		1,131.8507	1,131.8507	0.0293		1,132.5821

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1906	0.9291	7.9449	0.0152		0.0265	0.0265		0.0264	0.0264	0.0000	1,470.7456	1,470.7456	0.4757		1,482.6373
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1906	0.9291	7.9449	0.0152		0.0265	0.0265		0.0264	0.0264	0.0000	1,470.7456	1,470.7456	0.4757		1,482.6373

Mitigated Construction Off-Site

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

Worker	0.4644	0.2807	3.4366	0.0114	0.9538	8.1600e-003	0.9619	0.2585	7.5200e-003	0.2660		1,131.8507	1,131.8507	0.0293		1,132.5821
Total	0.4644	0.2807	3.4366	0.0114	0.9538	8.1600e-003	0.9619	0.2585	7.5200e-003	0.2660		1,131.8507	1,131.8507	0.0293		1,132.5821

3.5 Phase 1 Surface Improvements - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6499	4.8007	5.3712	0.0152		0.2025	0.2025		0.1863	0.1863		1,471.2043	1,471.2043	0.4758		1,483.0997
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6499	4.8007	5.3712	0.0152		0.2025	0.2025		0.1863	0.1863		1,471.2043	1,471.2043	0.4758		1,483.0997

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4411	0.2575	3.2131	0.0109	1.2322	8.0100e-003	1.2402	0.3268	7.3800e-003	0.3342		1,087.2557	1,087.2557	0.0269		1,087.9281
Total	0.4411	0.2575	3.2131	0.0109	1.2322	8.0100e-003	1.2402	0.3268	7.3800e-003	0.3342		1,087.2557	1,087.2557	0.0269		1,087.9281

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	0.1905	0.9269	7.9451	0.0152		0.0263	0.0263		0.0262	0.0262	0.0000	1,471.2043	1,471.2043	0.4758		1,483.0997
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1905	0.9269	7.9451	0.0152		0.0263	0.0263		0.0262	0.0262	0.0000	1,471.2043	1,471.2043	0.4758		1,483.0997

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4411	0.2575	3.2131	0.0109	0.9538	8.0100e-003	0.9618	0.2585	7.3800e-003	0.2659		1,087.2557	1,087.2557	0.0269		1,087.9281
Total	0.4411	0.2575	3.2131	0.0109	0.9538	8.0100e-003	0.9618	0.2585	7.3800e-003	0.2659		1,087.2557	1,087.2557	0.0269		1,087.9281

3.6 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1872	18.7572	23.0956	0.0409		0.8898	0.8898		0.8333	0.8333		3,909.0276	3,909.0276	1.0457		3,935.1701

Total	2.1872	18.7572	23.0956	0.0409		0.8898	0.8898		0.8333	0.8333		3,909.027	3,909.027	1.0457		3,935.170
												6	6			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	0.6765	23.6368	7.0241	0.0813	2.1121	0.0279	2.1400	0.6080	0.0266	0.6346		8,777.091	8,777.091	0.5764		8,791.502
												5	5			1
Worker	3.4027	2.0567	25.1790	0.0832	9.0280	0.0598	9.0878	2.3947	0.0551	2.4497		8,292.692	8,292.692	0.2144		8,298.051
												4	4			3
Total	4.0792	25.6934	32.2032	0.1645	11.1401	0.0877	11.2278	3.0027	0.0817	3.0844		17,069.78	17,069.78	0.7908		17,089.55
												39	39			34

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5721	13.0425	25.1317	0.0409		0.6149	0.6149		0.5829	0.5829	0.0000	3,909.027	3,909.027	1.0457		3,935.170
												6	6			1
Total	1.5721	13.0425	25.1317	0.0409		0.6149	0.6149		0.5829	0.5829	0.0000	3,909.027	3,909.027	1.0457		3,935.170
												6	6			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	0.6765	23.6368	7.0241	0.0813	1.7206	0.0279	1.7485	0.5119	0.0266	0.5385		8,777.091	8,777.091	0.5764		8,791.502
												5	5			1
Worker	3.4027	2.0567	25.1790	0.0832	6.9880	0.0598	7.0478	1.8939	0.0551	1.9490		8,292.692	8,292.692	0.2144		8,298.051
												4	4			3
Total	4.0792	25.6934	32.2032	0.1645	8.7087	0.0877	8.7963	2.4058	0.0817	2.4875		17,069.78	17,069.78	0.7908		17,089.55
												39	39			34

3.6 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0637	17.4009	23.0335	0.0409		0.7818	0.7818		0.7319	0.7319		3,909.687	3,909.687	1.0423		3,935.743
												1	1			6
Total	2.0637	17.4009	23.0335	0.0409		0.7818	0.7818		0.7319	0.7319		3,909.687	3,909.687	1.0423		3,935.743
												1	1			6

Unmitigated Construction Off-Site

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

Vendor	0.6526	23.3073	6.8051	0.0806	2.1121	0.0272	2.1393	0.6080	0.0260	0.6340		8,720.638	8,720.638	0.5698		8,734.883
												4	4			2
Worker	3.2320	1.8867	23.5416	0.0799	9.0280	0.0587	9.0867	2.3947	0.0541	2.4487		7,965.959	7,965.959	0.1971		7,970.886
												8	8			4
Total	3.8846	25.1940	30.3466	0.1605	11.1401	0.0859	11.2260	3.0027	0.0800	3.0827		16,686.59	16,686.59	0.7669		16,705.76
												82	82			96

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4822	12.2345	25.0480	0.0409		0.5428	0.5428		0.5144	0.5144	0.0000	3,909.687	3,909.687	1.0423		3,935.743
												1	1			6
Total	1.4822	12.2345	25.0480	0.0409		0.5428	0.5428		0.5144	0.5144	0.0000	3,909.687	3,909.687	1.0423		3,935.743
												1	1			6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6526	23.3073	6.8051	0.0806	1.7206	0.0272	1.7478	0.5119	0.0260	0.5379		8,720.638	8,720.638	0.5698		8,734.883
												4	4			2
Worker	3.2320	1.8867	23.5416	0.0799	6.9880	0.0587	7.0467	1.8939	0.0541	1.9480		7,965.959	7,965.959	0.1971		7,970.886
												8	8			4
Total	3.8846	25.1940	30.3466	0.1605	8.7087	0.0859	8.7945	2.4058	0.0800	2.4859		16,686.59	16,686.59	0.7669		16,705.76
												82	82			96

3.6 Phase 1 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943
Total	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6335	22.9705	6.6722	0.0800	2.1121	0.0264	2.1385	0.6080	0.0253	0.6333		8,666.9848	8,666.9848	0.5642		8,681.0885
Worker	3.0836	1.7398	21.9902	0.0767	9.0280	0.0578	9.0858	2.3947	0.0532	2.4479		7,643.6727	7,643.6727	0.1820		7,648.2224
Total	3.7171	24.7103	28.6624	0.1567	11.1401	0.0842	11.2243	3.0027	0.0784	3.0811		16,310.6576	16,310.6576	0.7461		16,329.3109

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943

Total	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.728	3,909.728	1.0386		3,935.694
												8	8			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	0.6335	22.9705	6.6722	0.0800	1.7206	0.0264	1.7471	0.5119	0.0253	0.5372		8,666.984	8,666.984	0.5642		8,681.088
Worker	3.0836	1.7398	21.9902	0.0767	6.9880	0.0578	7.0458	1.8939	0.0532	1.9471		7,643.672	7,643.672	0.1820		7,648.222
Total	3.7171	24.7103	28.6624	0.1567	8.7086	0.0842	8.7929	2.4058	0.0784	2.4843		16,310.65	16,310.65	0.7461		16,329.31
												76	76			09

3.6 Phase 1 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.728	3,909.728	1.0386		3,935.694
Total	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.728	3,909.728	1.0386		3,935.694
												8	8			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	0.6174	22.6445	6.5805	0.0795	2.1121	0.0257	2.1378	0.6080	0.0246	0.6326		8,616.773 2	8,616.773 2	0.5587		8,630.741 6
Worker	2.9532	1.6183	20.6815	0.0738	9.0280	0.0560	9.0840	2.3947	0.0515	2.4462		7,363.677 0	7,363.677 0	0.1697		7,367.918 3
Total	3.5706	24.2628	27.2620	0.1533	11.1401	0.0817	11.2218	3.0027	0.0761	3.0788		15,980.45 02	15,980.45 02	0.7284		15,998.65 99

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.728 8	3,909.728 8	1.0386		3,935.694 3
Total	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.728 8	3,909.728 8	1.0386		3,935.694 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	0.6174	22.6445	6.5805	0.0795	1.7206	0.0257	1.7463	0.5119	0.0246	0.5365		8,616.773 2	8,616.773 2	0.5587		8,630.741 6
Worker	2.9532	1.6183	20.6815	0.0738	6.9880	0.0560	7.0440	1.8939	0.0515	1.9455		7,363.677 0	7,363.677 0	0.1697		7,367.918 3
Total	3.5706	24.2628	27.2620	0.1533	8.7086	0.0817	8.7903	2.4058	0.0761	2.4819		15,980.45 02	15,980.45 02	0.7284		15,998.65 99

3.6 Phase 1 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361			3,909.728 8	3,909.728 8	1.0386		3,935.694 3
Total	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361			3,909.728 8	3,909.728 8	1.0386		3,935.694 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	0.6038	22.3325	6.5024	0.0789	2.1121	0.0251	2.1372	0.6080	0.0240	0.6320			8,570.841 2	8,570.841 2	0.5541	8,584.692 9
Worker	2.8232	1.5108	19.5218	0.0714	9.0280	0.0530	9.0810	2.3947	0.0488	2.4434			7,117.131 4	7,117.131 4	0.1589	7,121.104 3
Total	3.4270	23.8433	26.0242	0.1503	11.1401	0.0781	11.2182	3.0027	0.0728	3.0754			15,687.97 26	15,687.97 26	0.7130	15,705.79 72

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943
Total	1.3960	11.4327	24.9749	0.0409		0.4758	0.4758		0.4511	0.4511	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6038	22.3325	6.5024	0.0789	1.7206	0.0251	1.7457	0.5119	0.0240	0.5359		8,570.8412	8,570.8412	0.5541		8,584.6929
Worker	2.8232	1.5108	19.5218	0.0714	6.9880	0.0530	7.0410	1.8939	0.0488	1.9427		7,117.1314	7,117.1314	0.1589		7,121.1043
Total	3.4270	23.8433	26.0242	0.1503	8.7086	0.0781	8.7867	2.4058	0.0728	2.4786		15,687.9726	15,687.9726	0.7130		15,705.7972

3.7 Phase 2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.9763	0.0000	9.9763	2.6732	0.0000	2.6732			0.0000			0.0000

Off-Road	1.5314	14.9445	16.4243	0.0262		0.6597	0.6597		0.6069	0.6069		2,537.4388	2,537.4388	0.8207		2,557.9553
Total	1.5314	14.9445	16.4243	0.0262	9.9763	0.6597	10.6359	2.6732	0.6069	3.2801		2,537.4388	2,537.4388	0.8207		2,557.9553

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6300e-003	0.0889	0.0172	1.9000e-004	2.2092	6.0000e-005	2.2092	0.2208	6.0000e-005	0.2208		21.1425	21.1425	2.2300e-003		21.1983
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0147	8.5800e-003	0.1071	3.6000e-004	0.0411	2.7000e-004	0.0413	0.0109	2.5000e-004	0.0111		36.2419	36.2419	9.0000e-004		36.2643
Total	0.0163	0.0974	0.1243	5.5000e-004	2.2502	3.3000e-004	2.2506	0.2317	3.1000e-004	0.2320		57.3844	57.3844	3.1300e-003		57.4626

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4512	0.0000	2.4512	0.6568	0.0000	0.6568			0.0000			0.0000
Off-Road	0.4976	3.5414	15.3365	0.0262		0.1458	0.1458		0.1368	0.1368	0.0000	2,537.4388	2,537.4388	0.8207		2,557.9553
Total	0.4976	3.5414	15.3365	0.0262	2.4512	0.1458	2.5969	0.6568	0.1368	0.7936	0.0000	2,537.4388	2,537.4388	0.8207		2,557.9553

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6300e-003	0.0889	0.0172	1.9000e-004	0.4744	6.0000e-005	0.4745	0.0476	6.0000e-005	0.0476		21.1425	21.1425	2.2300e-003		21.1983
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0147	8.5800e-003	0.1071	3.6000e-004	0.0318	2.7000e-004	0.0321	8.6200e-003	2.5000e-004	8.8600e-003		36.2419	36.2419	9.0000e-004		36.2643
Total	0.0163	0.0974	0.1243	5.5000e-004	0.5062	3.3000e-004	0.5066	0.0562	3.1000e-004	0.0565		57.3844	57.3844	3.1300e-003		57.4626

3.8 Phase 2 Grading - 2024
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6897	0.0000	19.6897	10.4717	0.0000	10.4717			0.0000			0.0000
Off-Road	19.0815	192.8717	131.8274	0.3594		7.4444	7.4444		6.8488	6.8488		34,794.0735	34,794.0735	11.2531		35,075.4012
Total	19.0815	192.8717	131.8274	0.3594	19.6897	7.4444	27.1341	10.4717	6.8488	17.3206		34,794.0735	34,794.0735	11.2531		35,075.4012

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0597	3.2423	0.6280	6.9900e-003	280.3366	2.2600e-003	280.3388	27.9987	2.1600e-003	28.0008		771.5038	771.5038	0.0814		773.5386

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2147	0.1253	1.5637	5.3100e-003	0.5997	3.9000e-003	0.6036	0.1591	3.5900e-003	0.1627		529.1311	529.1311	0.0131		529.4583
Total	0.2743	3.3676	2.1918	0.0123	280.9363	6.1600e-003	280.9424	28.1577	5.7500e-003	28.1635		1,300.6349	1,300.6349	0.0945		1,302.9970

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.8378	0.0000	4.8378	2.5729	0.0000	2.5729			0.0000			0.0000
Off-Road	4.4303	19.3153	161.6768	0.3594		0.5956	0.5956		0.5950	0.5950	0.0000	34,794.0735	34,794.0735	11.2531		35,075.4012
Total	4.4303	19.3153	161.6768	0.3594	4.8378	0.5956	5.4334	2.5729	0.5950	3.1679	0.0000	34,794.0735	34,794.0735	11.2531		35,075.4012

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0597	3.2423	0.6280	6.9900e-003	60.1575	2.2600e-003	60.1597	6.0147	2.1600e-003	6.0169		771.5038	771.5038	0.0814		773.5386
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2147	0.1253	1.5637	5.3100e-003	0.4642	3.9000e-003	0.4681	0.1258	3.5900e-003	0.1294		529.1311	529.1311	0.0131		529.4583
Total	0.2743	3.3676	2.1918	0.0123	60.6216	6.1600e-003	60.6278	6.1405	5.7500e-003	6.1463		1,300.6349	1,300.6349	0.0945		1,302.9970

3.8 Phase 2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6897	0.0000	19.6897	10.4717	0.0000	10.4717			0.0000			0.0000
Off-Road	17.2011	163.1274	121.2372	0.3597		6.3130	6.3130		5.8080	5.8080		34,821.75 30	34,821.75 30	11.2621		35,103.30 45
Total	17.2011	163.1274	121.2372	0.3597	19.6897	6.3130	26.0027	10.4717	5.8080	16.2797		34,821.75 30	34,821.75 30	11.2621		35,103.30 45

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0583	3.1911	0.6312	6.9100e-003	113.1325	2.1400e-003	113.1347	11.3029	2.0400e-003	11.3049		764.3338	764.3338	0.0797		766.3265
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2048	0.1156	1.4607	5.0900e-003	0.5997	3.8400e-003	0.6035	0.1591	3.5300e-003	0.1626		507.7235	507.7235	0.0121		508.0257
Total	0.2631	3.3066	2.0919	0.0120	113.7322	5.9800e-003	113.7382	11.4620	5.5700e-003	11.4675		1,272.057 3	1,272.057 3	0.0918		1,274.352 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.8378	0.0000	4.8378	2.5729	0.0000	2.5729			0.0000			0.0000

Off-Road	4.4282	19.2759	161.6759	0.3597		0.5945	0.5945		0.5940	0.5940	0.0000	34,821.75 30	34,821.75 30	11.2621		35,103.30 45
Total	4.4282	19.2759	161.6759	0.3597	4.8378	0.5945	5.4323	2.5729	0.5940	3.1669	0.0000	34,821.75 30	34,821.75 30	11.2621		35,103.30 45

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0583	3.1911	0.6312	6.9100e-003	24.2883	2.1400e-003	24.2905	2.4322	2.0400e-003	2.4342		764.3338	764.3338	0.0797		766.3265
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2048	0.1156	1.4607	5.0900e-003	0.4642	3.8400e-003	0.4680	0.1258	3.5300e-003	0.1293		507.7235	507.7235	0.0121		508.0257
Total	0.2631	3.3066	2.0919	0.0120	24.7525	5.9800e-003	24.7585	2.5580	5.5700e-003	2.5636		1,272.057 3	1,272.057 3	0.0918		1,274.352 2

3.9 Phase 2 Utilities - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9193	13.2467	23.2248	0.0624		0.5325	0.5325		0.4899	0.4899		6,034.164 5	6,034.164 5	1.9516		6,082.953 8
Total	1.9193	13.2467	23.2248	0.0624		0.5325	0.5325		0.4899	0.4899		6,034.164 5	6,034.164 5	1.9516		6,082.953 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6000e-003	0.0875	0.0173	1.9000e-004	5.7000	6.0000e-005	5.7001	0.5693	6.0000e-005	0.5694		20.9460	20.9460	2.1800e-003		21.0006
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3030	0.1710	2.1610	7.5300e-003	0.8872	5.6800e-003	0.8929	0.2353	5.2300e-003	0.2406		751.1526	751.1526	0.0179		751.5997
Total	0.3046	0.2584	2.1783	7.7200e-003	6.5872	5.7400e-003	6.5930	0.8047	5.2900e-003	0.8099		772.0986	772.0986	0.0201		772.6003

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8751	4.2964	34.1956	0.0624		0.1555	0.1555		0.1506	0.1506	0.0000	6,034.1645	6,034.1645	1.9516		6,082.9538
Total	0.8751	4.2964	34.1956	0.0624		0.1555	0.1555		0.1506	0.1506	0.0000	6,034.1645	6,034.1645	1.9516		6,082.9538

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.6000e-003	0.0875	0.0173	1.9000e-004	1.2233	6.0000e-005	1.2234	0.1224	6.0000e-005	0.1224		20.9460	20.9460	2.1800e-003		21.0006

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3030	0.1710	2.1610	7.5300e-003	0.6867	5.6800e-003	0.6924	0.1861	5.2300e-003	0.1914		751.1526	751.1526	0.0179		751.5997
Total	0.3046	0.2584	2.1783	7.7200e-003	1.9100	5.7400e-003	1.9158	0.3085	5.2900e-003	0.3138		772.0986	772.0986	0.0201		772.6003

3.9 Phase 2 Utilities - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9193	13.2467	23.2248	0.0624		0.5325	0.5325		0.4899	0.4899		6,034.1645	6,034.1645	1.9516		6,082.9538
Total	1.9193	13.2467	23.2248	0.0624		0.5325	0.5325		0.4899	0.4899		6,034.1645	6,034.1645	1.9516		6,082.9538

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	3.6064	6.0000e-005	3.6064	0.3603	5.0000e-005	0.3603		20.7608	20.7608	2.1400e-003		20.8143
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2902	0.1590	2.0324	7.2600e-003	0.8872	5.5000e-003	0.8927	0.2353	5.0600e-003	0.2404		723.6371	723.6371	0.0167		724.0539
Total	0.2918	0.2452	2.0498	7.4500e-003	4.4936	5.5600e-003	4.4991	0.5956	5.1100e-003	0.6007		744.3978	744.3978	0.0188		744.8682

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8751	4.2964	34.1956	0.0624		0.1555	0.1555		0.1506	0.1506	0.0000	6,034.1645	6,034.1645	1.9516		6,082.9538
Total	0.8751	4.2964	34.1956	0.0624		0.1555	0.1555		0.1506	0.1506	0.0000	6,034.1645	6,034.1645	1.9516		6,082.9538

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	0.7742	6.0000e-005	0.7742	0.0775	5.0000e-005	0.0776		20.7608	20.7608	2.1400e-003		20.8143
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2902	0.1590	2.0324	7.2600e-003	0.6867	5.5000e-003	0.6922	0.1861	5.0600e-003	0.1912		723.6371	723.6371	0.0167		724.0539
Total	0.2918	0.2452	2.0498	7.4500e-003	1.4609	5.5600e-003	1.4664	0.2636	5.1100e-003	0.2687		744.3978	744.3978	0.0188		744.8682

3.10 Phase 2 Surface Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4031	0.2209	2.8228	0.0101	1.2322	7.6400e-003	1.2399	0.3268	7.0300e-003	0.3339		1,005.0515	1,005.0515	0.0232		1,005.6304
Total	0.4031	0.2209	2.8228	0.0101	1.2322	7.6400e-003	1.2399	0.3268	7.0300e-003	0.3339		1,005.0515	1,005.0515	0.0232		1,005.6304

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1902	0.9240	7.9449	0.0152		0.0260	0.0260		0.0259	0.0259	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1902	0.9240	7.9449	0.0152		0.0260	0.0260		0.0259	0.0259	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4031	0.2209	2.8228	0.0101	0.9538	7.6400e-003	0.9614	0.2585	7.0300e-003	0.2655		1,005.0515	1,005.0515	0.0232		1,005.6304
Total	0.4031	0.2209	2.8228	0.0101	0.9538	7.6400e-003	0.9614	0.2585	7.0300e-003	0.2655		1,005.0515	1,005.0515	0.0232		1,005.6304

3.10 Phase 2 Surface Improvements - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827

Unmitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3853	0.2062	2.6645	9.7400e-003	1.2322	7.2300e-003	1.2395	0.3268	6.6500e-003	0.3335		971.4010	971.4010	0.0217		971.9433
Total	0.3853	0.2062	2.6645	9.7400e-003	1.2322	7.2300e-003	1.2395	0.3268	6.6500e-003	0.3335		971.4010	971.4010	0.0217		971.9433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1902	0.9240	7.9449	0.0152		0.0260	0.0260		0.0259	0.0259	0.0000	1,470.592 2	1,470.592 2	0.4756		1,482.482 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1902	0.9240	7.9449	0.0152		0.0260	0.0260		0.0259	0.0259	0.0000	1,470.592 2	1,470.592 2	0.4756		1,482.482 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3853	0.2062	2.6645	9.7400e-003	0.9538	7.2300e-003	0.9610	0.2585	6.6500e-003	0.2652		971.4010	971.4010	0.0217		971.9433
Total	0.3853	0.2062	2.6645	9.7400e-003	0.9538	7.2300e-003	0.9610	0.2585	6.6500e-003	0.2652		971.4010	971.4010	0.0217		971.9433

3.11 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6895	0.0000	8.6895	2.3348	0.0000	2.3348			0.0000			0.0000
Off-Road	1.2681	11.9786	14.6445	0.0245		0.4998	0.4998		0.4598	0.4598		2,371.880	2,371.880	0.7671		2,391.058
Total	1.2681	11.9786	14.6445	0.0245	8.6895	0.4998	9.1893	2.3348	0.4598	2.7946		2,371.880	2,371.880	0.7671		2,391.058
												1	1			0

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	2.2092	6.0000e-005	2.2092	0.2208	5.0000e-005	0.2208		20.7608	20.7608	2.1400e-003		20.8143
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0134	7.3600e-003	0.0941	3.4000e-004	0.0411	2.5000e-004	0.0413	0.0109	2.3000e-004	0.0111		33.5017	33.5017	7.7000e-004		33.5210
Total	0.0150	0.0935	0.1115	5.3000e-004	2.2502	3.1000e-004	2.2506	0.2317	2.8000e-004	0.2320		54.2625	54.2625	2.9100e-003		54.3353

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1350	0.0000	2.1350	0.5737	0.0000	0.5737			0.0000			0.0000

Off-Road	0.4568	3.2604	14.5581	0.0245		0.1222	0.1222		0.1149	0.1149	0.0000	2,371.880	2,371.880	0.7671		2,391.058
												1	1			0
Total	0.4568	3.2604	14.5581	0.0245	2.1350	0.1222	2.2572	0.5737	0.1149	0.6886	0.0000	2,371.880	2,371.880	0.7671		2,391.058
												1	1			0

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	0.4744	6.0000e-005	0.4745	0.0476	5.0000e-005	0.0476		20.7608	20.7608	2.1400e-003		20.8143
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0134	7.3600e-003	0.0941	3.4000e-004	0.0318	2.5000e-004	0.0321	8.6200e-003	2.3000e-004	8.8500e-003		33.5017	33.5017	7.7000e-004		33.5210
Total	0.0150	0.0935	0.1115	5.3000e-004	0.5062	3.1000e-004	0.5065	0.0562	2.8000e-004	0.0565		54.2625	54.2625	2.9100e-003		54.3353

3.12 Phase 3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.39	11,686.39	3.7796		11,780.88
												62	62			66
Total	5.5684	52.6035	39.3894	0.1207	4.9019	2.0263	6.9282	2.4910	1.8642	4.3552		11,686.39	11,686.39	3.7796		11,780.88
												62	62			66

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0566	3.1142	0.6309	6.7700e-003	235.1690	2.0100e-003	235.1710	23.4885	1.9200e-003	23.4904		750.6323	750.6323	0.0774		752.5673
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1962	0.1075	1.3738	4.9000e-003	0.5997	3.7200e-003	0.6034	0.1591	3.4200e-003	0.1625		489.1250	489.1250	0.0113		489.4068
Total	0.2528	3.2217	2.0047	0.0117	235.7687	5.7300e-003	235.7744	23.6476	5.3400e-003	23.6529		1,239.7573	1,239.7573	0.0887		1,241.9740

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4875	6.4798	54.2732	0.1207		0.1999	0.1999		0.1997	0.1997	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	1.4875	6.4798	54.2732	0.1207	1.2044	0.1999	1.4043	0.6121	0.1997	0.8118	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0566	3.1142	0.6309	6.7700e-003	50.4678	2.0100e-003	50.4698	5.0469	1.9200e-003	5.0488		750.6323	750.6323	0.0774		752.5673

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1962	0.1075	1.3738	4.9000e-003	0.4642	3.7200e-003	0.4679	0.1258	3.4200e-003	0.1292		489.1250	489.1250	0.0113		489.4068
Total	0.2528	3.2217	2.0047	0.0117	50.9320	5.7300e-003	50.9377	5.1727	5.3400e-003	5.1780		1,239.7573	1,239.7573	0.0887		1,241.9740

3.12 Phase 3 Grading - 2027
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	5.5684	52.6035	39.3894	0.1207	4.9019	2.0263	6.9282	2.4910	1.8642	4.3552		11,686.3962	11,686.3962	3.7796		11,780.8866

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0557	3.0723	0.6352	6.7100e-003	146.8769	1.9300e-003	146.8788	14.6723	1.8400e-003	14.6741		744.8411	744.8411	0.0760		746.7413
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1875	0.1004	1.2967	4.7400e-003	0.5997	3.5200e-003	0.6032	0.1591	3.2400e-003	0.1623		472.7485	472.7485	0.0106		473.0124
Total	0.2432	3.1726	1.9320	0.0115	147.4766	5.4500e-003	147.4820	14.8314	5.0800e-003	14.8364		1,217.5896	1,217.5896	0.0866		1,219.7537

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4875	6.4798	54.2732	0.1207		0.1999	0.1999		0.1997	0.1997	0.0000	11,686.39 62	11,686.39 62	3.7796		11,780.88 66
Total	1.4875	6.4798	54.2732	0.1207	1.2044	0.1999	1.4043	0.6121	0.1997	0.8118	0.0000	11,686.39 62	11,686.39 62	3.7796		11,780.88 66

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0557	3.0723	0.6352	6.7100e-003	31.5271	1.9300e-003	31.5290	3.1551	1.8400e-003	3.1570		744.8411	744.8411	0.0760		746.7413
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1875	0.1004	1.2967	4.7400e-003	0.4642	3.5200e-003	0.4677	0.1258	3.2400e-003	0.1290		472.7485	472.7485	0.0106		473.0124
Total	0.2432	3.1726	1.9320	0.0115	31.9913	5.4500e-003	31.9967	3.2809	5.0800e-003	3.2860		1,217.589 6	1,217.589 6	0.0866		1,219.753 7

3.12 Phase 3 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000

Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.39	11,686.39	3.7796		11,780.88
												62	62			66
Total	5.5684	52.6035	39.3894	0.1207	4.9019	2.0263	6.9282	2.4910	1.8642	4.3552		11,686.39	11,686.39	3.7796		11,780.88
												62	62			66

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0549	3.0354	0.6431	6.6500e-003	684.4644	1.8500e-003	684.4662	68.3519	1.7700e-003	68.3536		739.6871	739.6871	0.0747		741.5553
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.5997	3.2600e-003	0.6029	0.1591	3.0000e-003	0.1621		458.3863	458.3863	9.9500e-003		458.6351
Total	0.2334	3.1294	1.8728	0.0112	685.0641	5.1100e-003	685.0692	68.5109	4.7700e-003	68.5157		1,198.073	1,198.073	0.0847		1,200.190
												4	4			4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4875	6.4798	54.2732	0.1207		0.1999	0.1999		0.1997	0.1997	0.0000	11,686.39	11,686.39	3.7796		11,780.88
												62	62			66
Total	1.4875	6.4798	54.2732	0.1207	1.2044	0.1999	1.4043	0.6121	0.1997	0.8118	0.0000	11,686.39	11,686.39	3.7796		11,780.88
												62	62			66

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0549	3.0354	0.6431	6.6500e-003	146.8520	1.8500e-003	146.8539	14.6736	1.7700e-003	14.6754		739.6871	739.6871	0.0747		741.5553
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.4642	3.2600e-003	0.4674	0.1258	3.0000e-003	0.1288		458.3863	458.3863	9.9500e-003		458.6351
Total	0.2334	3.1294	1.8728	0.0112	147.3162	5.1100e-003	147.3213	14.7994	4.7700e-003	14.8042		1,198.0734	1,198.0734	0.0847		1,200.1904

3.13 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.5112	3,608.5112	0.9412		3,632.0412

Unmitigated Construction Off-Site

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

Vendor	0.3265	11.9754	3.4801	0.0420	1.1170	0.0136	1.1306	0.3215	0.0130	0.3345		4,556.947	4,556.947	0.2955		4,564.334
												4	4			5
Worker	1.5801	0.8659	11.0653	0.0395	4.8303	0.0300	4.8602	1.2812	0.0276	1.3088		3,939.801	3,939.801	0.0908		3,942.071
												7	7			0
Total	1.9065	12.8413	14.5454	0.0815	5.9473	0.0436	5.9908	1.6028	0.0406	1.6433		8,496.749	8,496.749	0.3863		8,506.405
												1	1			5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.511	3,608.511	0.9412		3,632.041
												2	2			2
Total	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.3265	11.9754	3.4801	0.0420	0.9100	0.0136	0.9235	0.2707	0.0130	0.2837		4,556.947	4,556.947	0.2955		4,564.334
												4	4			5
Worker	1.5801	0.8659	11.0653	0.0395	3.7388	0.0300	3.7688	1.0133	0.0276	1.0409		3,939.801	3,939.801	0.0908		3,942.071
												7	7			0
Total	1.9065	12.8413	14.5454	0.0815	4.6488	0.0436	4.6923	1.2840	0.0406	1.3246		8,496.749	8,496.749	0.3863		8,506.405
												1	1			5

3.13 Phase 2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412		3,632.041 2
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412		3,632.041 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	0.3193	11.8105	3.4388	0.0418	1.1170	0.0133	1.1303	0.3215	0.0127	0.3342		4,532.656 4	4,532.656 4	0.2930		4,539.981 8
Worker	1.5105	0.8083	10.4448	0.0382	4.8303	0.0283	4.8586	1.2812	0.0261	1.3073		3,807.892 0	3,807.892 0	0.0850		3,810.017 6
Total	1.8299	12.6188	13.8836	0.0799	5.9473	0.0416	5.9889	1.6028	0.0388	1.6415		8,340.548 4	8,340.548 4	0.3780		8,349.999 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.511 2	3,608.511 2	0.9412		3,632.041 2

Total	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.511 2	3,608.511 2	0.9412		3,632.041 2
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3193	11.8105	3.4388	0.0418	0.9100	0.0133	0.9232	0.2707	0.0127	0.2834		4,532.656 4	4,532.656 4	0.2930		4,539.981 8
Worker	1.5105	0.8083	10.4448	0.0382	3.7388	0.0283	3.7672	1.0133	0.0261	1.0394		3,807.892 0	3,807.892 0	0.0850		3,810.017 6
Total	1.8299	12.6188	13.8836	0.0799	4.6488	0.0416	4.6904	1.2840	0.0388	1.3228		8,340.548 4	8,340.548 4	0.3780		8,349.999 4

3.13 Phase 2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412		3,632.041 2
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412		3,632.041 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	0.3137	11.6727	3.4182	0.0415	1.1170	0.0130	1.1300	0.3215	0.0125	0.3340		4,512.2947	4,512.2947	0.2908		4,519.5640
Worker	1.4376	0.7575	9.9048	0.0370	4.8303	0.0263	4.8565	1.2812	0.0242	1.3054		3,692.2073	3,692.2073	0.0802		3,694.2111
Total	1.7513	12.4302	13.3230	0.0785	5.9473	0.0393	5.9865	1.6028	0.0366	1.6394		8,204.5019	8,204.5019	0.3709		8,213.7752

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412

Mitigated Construction Off-Site

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

Vendor	0.3137	11.6727	3.4182	0.0415	0.9100	0.0130	0.9230	0.2707	0.0125	0.2832		4,512.294	4,512.294	0.2908		4,519.564
												7	7			0
Worker	1.4376	0.7575	9.9048	0.0370	3.7388	0.0263	3.7651	1.0133	0.0242	1.0375		3,692.207	3,692.207	0.0802		3,694.211
												3	3			1
Total	1.7513	12.4302	13.3230	0.0785	4.6488	0.0393	4.6880	1.2840	0.0366	1.3206		8,204.501	8,204.501	0.3709		8,213.775
												9	9			2

3.13 Phase 2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
												2	2			2
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.3083	11.5308	3.3948	0.0413	1.1170	0.0127	1.1297	0.3215	0.0122	0.3337		4,492.340	4,492.340	0.2892		4,499.569
												0	0			1
Worker	1.3588	0.7107	9.3924	0.0360	4.8303	0.0244	4.8547	1.2812	0.0224	1.3036		3,590.570	3,590.570	0.0757		3,592.461
												5	5			8
Total	1.6671	12.2415	12.7872	0.0773	5.9473	0.0371	5.9843	1.6028	0.0346	1.6373		8,082.910	8,082.910	0.3648		8,092.030
												5	5			9

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.511 2	3,608.511 2	0.9412		3,632.041 2
Total	1.3576	11.2661	22.6037	0.0378		0.4707	0.4707		0.4460	0.4460	0.0000	3,608.511 2	3,608.511 2	0.9412		3,632.041 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	0.3083	11.5308	3.3948	0.0413	0.9099	0.0127	0.9227	0.2707	0.0122	0.2829		4,492.340 0	4,492.340 0	0.2892		4,499.569 1
Worker	1.3588	0.7107	9.3924	0.0360	3.7388	0.0244	3.7632	1.0133	0.0224	1.0357		3,590.570 5	3,590.570 5	0.0757		3,592.461 8
Total	1.6671	12.2415	12.7872	0.0773	4.6488	0.0371	4.6859	1.2840	0.0346	1.3186		8,082.910 5	8,082.910 5	0.3648		8,092.030 9

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	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		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	5,252.23	5,706.52	4837.79	15,012,965	15,012,965
Apartments Low Rise	2,866.65	3,114.60	2640.45	8,194,027	8,194,027
City Park	59.35	714.35	525.64	468,666	468,666
City Park	54.62	657.48	483.79	431,352	431,352
City Park	23.44	282.10	207.58	185,078	185,078
Elementary School	1,290.00	0.00	0.00	2,031,694	2,031,694
Regional Shopping Center	2,562.00	2,998.20	1514.40	4,338,828	4,338,828
Retirement Community	1,068.00	903.35	867.75	2,900,621	2,900,621
Single Family Housing	12,109.44	12,605.52	10964.64	34,311,512	34,311,512
User Defined Industrial	0.00	0.00	0.00		
Total	25,285.72	26,982.12	22,042.03	67,874,743	67,874,743

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	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
City Park	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
Elementary School	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
Regional Shopping Center	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
Retirement Community	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
Single Family Housing	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
User Defined Industrial	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

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	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
NaturalGas Unmitigated	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779

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
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Land Use	kBTU/yr	lb/day									lb/day					
Apartments Low Rise	13378.3	0.1443	1.2329	0.5246	7.8700e-003	0.0997	0.0997	0.0997	0.0997	0.0997	1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735	
Apartments Low Rise	24511.5	0.2643	2.2589	0.9612	0.0144	0.1826	0.1826	0.1826	0.1826	0.1826	2,883.7117	2,883.7117	0.0553	0.0529	2,900.8482	
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Elementary School	1355.98	0.0146	0.1329	0.1117	8.0000e-004	0.0101	0.0101	0.0101	0.0101	0.0101	159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748	
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004	2.7300e-003	2.7300e-003	2.7300e-003	2.7300e-003	2.7300e-003	43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828	
Retirement Community	13685.9	0.1476	1.2613	0.5367	8.0500e-003	0.1020	0.1020	0.1020	0.1020	0.1020	1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706	
Single Family Housing	81501.8	0.8789	7.5110	3.1962	0.0479	0.6073	0.6073	0.6073	0.6073	0.6073	9,588.4488	9,588.4488	0.1838	0.1758	9,645.4281	
User Defined Industrial	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		1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044	15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day									lb/day						
Apartments Low Rise	13.3783	0.1443	1.2329	0.5246	7.8700e-003	0.0997	0.0997	0.0997	0.0997	0.0997	0.0997	1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735	
Apartments Low Rise	24.5115	0.2643	2.2589	0.9612	0.0144	0.1826	0.1826	0.1826	0.1826	0.1826	0.1826	2,883.7117	2,883.7117	0.0553	0.0529	2,900.8482	
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Elementary School	1.35598	0.0146	0.1329	0.1117	8.0000e-004	0.0101	0.0101	0.0101	0.0101	0.0101	0.0101	159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748	
Regional Shopping Center	0.366575	3.9500e-003	0.0359	0.0302	2.2000e-004	2.7300e-003	2.7300e-003	2.7300e-003	2.7300e-003	2.7300e-003	2.7300e-003	43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828	
Retirement Community	13.6859	0.1476	1.2613	0.5367	8.0500e-003	0.1020	0.1020	0.1020	0.1020	0.1020	0.1020	1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706	
Single Family Housing	81.5018	0.8789	7.5110	3.1962	0.0479	0.6073	0.6073	0.6073	0.6073	0.6073	0.6073	9,588.4488	9,588.4488	0.1838	0.1758	9,645.4281	

User Defined Industrial	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		1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779

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	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Unmitigated	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	88.3350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,398.5814	124.9569	7,898.3537	14.3096		1,107.4245	1,107.4245		1,107.4245	1,107.4245	116,113.6062	48,696.3529	164,809.9591	107.1536	9.1332	170,210.4959
Landscaping	7.2594	2.7981	242.5562	0.0129		1.3496	1.3496		1.3496	1.3496		438.3289	438.3289	0.4177		448.7705

Total	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
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Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	88.3350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,398.5814	124.9569	7,898.3537	14.3096		1,107.4245	1,107.4245		1,107.4245	1,107.4245	116,113.6062	48,696.3529	164,809.9591	107.1536	9.1332	170,210.4959
Landscaping	7.2594	2.7981	242.5562	0.0129		1.3496	1.3496		1.3496	1.3496		438.3289	438.3289	0.4177		448.7705
Total	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664

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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Fanita Ranch Construction - San Diego County APCD Air District, Annual

**Fanita Ranch Construction Phase 3-4
San Diego County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	19.20	83,603.37	0
User Defined Industrial	1.00	User Defined Unit	69.60	0.00	0
City Park	31.40	Acre	31.40	1,367,784.00	0
City Park	28.90	Acre	28.90	1,258,884.00	0
City Park	12.40	Acre	12.40	540,144.00	0
Apartments Low Rise	797.00	Dwelling Unit	63.90	797,000.00	2279
Apartments Low Rise	435.00	Dwelling Unit	27.19	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,272.00	Dwelling Unit	248.00	2,289,600.00	3638
Regional Shopping Center	60.00	1000sqft	9.31	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Construction Phase - Construction phasing provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

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Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Trips and VMT - assume 1 hauling trip per day, 10 miles per trip (cut and fill balanced onsite)

On-road Fugitive Dust - assume 50% onsite roadways for hauling trips are paved

Grading - grading acreage provided by developer

Construction Off-road Equipment Mitigation - clean engine and dust control

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_Nonresidential_Exterior	76802	0
tblAreaCoating	Area_Nonresidential_Interior	230405	0
tblAreaCoating	Area_Residential_Exterior	2677455	0
tblAreaCoating	Area_Residential_Interior	8032365	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	66.00

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2365	1.6805	2.0290	7.5100e-003	0.4082	0.0367	0.4448	0.1102	0.0343	0.1446	0.0000	695.8397	695.8397	0.0626	0.0000	697.4044
2024	0.7847	5.6243	6.8446	0.0257	1.4258	0.1137	1.5395	0.3851	0.1064	0.4915	0.0000	2,387.5323	2,387.5323	0.2154	0.0000	2,392.9173
2025	0.7431	5.3485	6.5936	0.0252	1.4204	0.0997	1.5201	0.3836	0.0933	0.4770	0.0000	2,336.0606	2,336.0606	0.2117	0.0000	2,341.3531
2026	1.4676	11.5439	12.1744	0.0428	19.5565	0.3190	19.8754	2.4528	0.2954	2.7482	0.0000	3,912.3470	3,912.3470	0.6019	0.0000	3,927.3940
2027	1.4525	12.4018	11.8001	0.0394	19.2467	0.3877	19.6344	2.3904	0.3586	2.7489	0.0000	3,564.3818	3,564.3818	0.6941	0.0000	3,581.7340
2028	1.2346	9.7481	10.8720	0.0341	26.8742	0.3208	27.1950	3.0447	0.2966	3.3414	0.0000	3,064.8674	3,064.8674	0.6362	0.0000	3,080.7712
2029	1.5339	12.8916	12.8196	0.0412	9.9719	0.4226	10.3945	1.4682	0.3910	1.8592	0.0000	3,711.5576	3,711.5576	0.7579	0.0000	3,730.5061
2030	1.2008	5.3718	9.1647	0.0324	9.4687	0.1197	9.5884	1.2437	0.1193	1.3630	0.0000	3,072.1007	3,072.1007	0.1230	0.0000	3,075.1763
2031	0.7969	5.0000	7.6340	0.0284	1.4991	0.0526	1.5517	0.4047	0.0520	0.4567	0.0000	2,634.1216	2,634.1216	0.1145	0.0000	2,636.9838
2032	0.5208	3.4583	5.0761	0.0196	1.0847	0.0334	1.1181	0.2929	0.0330	0.3260	0.0000	1,822.4480	1,822.4480	0.0800	0.0000	1,824.4477
2033	0.2517	1.7051	2.4882	9.6800e-003	0.5382	0.0164	0.5546	0.1453	0.0163	0.1616	0.0000	898.9289	898.9289	0.0394	0.0000	899.9135
Maximum	1.5339	12.8916	12.8196	0.0428	26.8742	0.4226	27.1950	3.0447	0.3910	3.3414	0.0000	3,912.3470	3,912.3470	0.7579	0.0000	3,927.3940

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2138	1.4702	2.1051	7.5100e-003	0.3195	0.0266	0.3461	0.0885	0.0251	0.1136	0.0000	695.8396	695.8396	0.0626	0.0000	697.4043
2024	0.7096	4.9608	7.1074	0.0257	1.1160	0.0831	1.1991	0.3091	0.0785	0.3876	0.0000	2,387.5318	2,387.5318	0.2154	0.0000	2,392.9168

2025	0.6738	4.7703	6.8599	0.0252	1.1117	0.0737	1.1854	0.3079	0.0696	0.3775	0.0000	2,336.060 1	2,336.060 1	0.2117	0.0000	2,341.352 6
2026	0.9874	6.5414	14.0095	0.0428	5.2410	0.1143	5.3553	0.8205	0.1091	0.9296	0.0000	3,912.345 1	3,912.345 1	0.6019	0.0000	3,927.392 1
2027	0.8250	5.5770	14.2257	0.0394	4.8416	0.1139	4.9555	0.7162	0.1092	0.8254	0.0000	3,564.379 4	3,564.379 4	0.6941	0.0000	3,581.731 6
2028	0.7201	4.4574	13.4191	0.0341	6.3739	0.1049	6.4788	0.8244	0.1004	0.9248	0.0000	3,064.865 1	3,064.865 1	0.6362	0.0000	3,080.769 0
2029	0.8622	5.6931	15.5846	0.0412	2.8656	0.1327	2.9983	0.5218	0.1271	0.6489	0.0000	3,711.555 0	3,711.555 0	0.7579	0.0000	3,730.503 4
2030	0.6442	3.5604	11.8257	0.0324	2.6403	0.0496	2.6900	0.4379	0.0492	0.4871	0.0000	3,072.098 4	3,072.098 4	0.1230	0.0000	3,075.174 0
2031	0.6543	4.5753	8.0711	0.0284	1.1730	0.0398	1.2128	0.3247	0.0392	0.3639	0.0000	2,634.120 6	2,634.120 6	0.1145	0.0000	2,636.982 7
2032	0.4341	3.1986	5.3139	0.0196	0.8489	0.0257	0.8746	0.2351	0.0253	0.2604	0.0000	1,822.447 4	1,822.447 4	0.0800	0.0000	1,824.447 0
2033	0.2087	1.5762	2.6062	9.6800e-003	0.4212	0.0126	0.4338	0.1166	0.0124	0.1291	0.0000	898.9286	898.9286	0.0394	0.0000	899.9132
Maximum	0.9874	6.5414	15.5846	0.0428	6.3739	0.1327	6.4788	0.8244	0.1271	0.9296	0.0000	3,912.345 1	3,912.345 1	0.7579	0.0000	3,927.392 1

	ROG	NOx	CO	SO2	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	32.18	37.97	-15.58	0.00	70.54	59.58	70.32	61.84	58.51	61.41	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
9	7-1-2023	9-30-2023	0.2355	0.2066
10	10-1-2023	12-31-2023	1.6881	1.4839
11	1-1-2024	3-31-2024	1.5980	1.4147
12	4-1-2024	6-30-2024	1.5777	1.3944
13	7-1-2024	9-30-2024	1.5950	1.4097
14	10-1-2024	12-31-2024	1.6155	1.4303
15	1-1-2025	3-31-2025	1.5079	1.3484
16	4-1-2025	6-30-2025	1.5053	1.3441
17	7-1-2025	9-30-2025	1.5218	1.3588
18	10-1-2025	12-31-2025	1.5414	1.3784
19	1-1-2026	3-31-2026	1.5989	1.3640
20	4-1-2026	6-30-2026	2.8379	1.6253
21	7-1-2026	9-30-2026	3.7399	1.8020

22	10-1-2026	12-31-2026	4.7767	2.7061
23	1-1-2027	3-31-2027	4.5357	2.5348
24	4-1-2027	6-30-2027	3.0203	1.2532
25	7-1-2027	9-30-2027	3.0535	1.2670
26	10-1-2027	12-31-2027	3.2200	1.3361
27	1-1-2028	3-31-2028	3.1344	1.3429
28	4-1-2028	6-30-2028	1.4950	1.0484
29	7-1-2028	9-30-2028	2.7833	1.2999
30	10-1-2028	12-31-2028	3.6194	1.5084
31	1-1-2029	3-31-2029	4.0441	2.0438
32	4-1-2029	6-30-2029	4.0177	2.0193
33	7-1-2029	9-30-2029	3.0719	1.1960
34	10-1-2029	12-31-2029	3.2534	1.2710
35	1-1-2030	3-31-2030	2.1170	1.1028
36	4-1-2030	6-30-2030	1.9936	1.0826
37	7-1-2030	9-30-2030	1.0566	0.8364
38	10-1-2030	12-31-2030	1.3679	1.1634
39	1-1-2031	3-31-2031	1.8243	1.6159
40	4-1-2031	6-30-2031	1.7317	1.5696
41	7-1-2031	9-30-2031	1.2049	1.0971
42	10-1-2031	12-31-2031	1.0117	0.9248
43	1-1-2032	3-31-2032	0.9902	0.9043
44	4-1-2032	6-30-2032	0.9806	0.8946
45	7-1-2032	9-30-2032	0.9914	0.9045
46	10-1-2032	12-31-2032	1.0011	0.9142
47	1-1-2033	3-31-2033	0.9702	0.8852
48	4-1-2033	6-30-2033	0.9720	0.8861
49	7-1-2033	9-30-2033	0.0107	0.0097
		Highest	4.7767	2.7061

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.796 2	1,847.028 2	6,165.824 4	4.0196	0.3397	6,367.547 5
Energy	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	8,734.211 5	8,734.211 5	0.2962	0.0990	8,771.120 4
Mobile	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	510.4715	0.0000	510.4715	30.1680	0.0000	1,264.671 6
Water						0.0000	0.0000		0.0000	0.0000	63.1360	1,633.692 5	1,696.828 5	6.5504	0.1667	1,910.272 4
Total	279.3816	7.6441	346.6409	0.6023	21.8199	45.7092	67.5290	5.3558	45.7092	51.0650	4,892.403 7	12,214.93 22	17,107.33 59	41.0343	0.6054	18,313.61 19

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.796 2	1,847.028 2	6,165.824 4	4.0196	0.3397	6,367.547 5
Energy	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	8,734.211 5	8,734.211 5	0.2962	0.0990	8,771.120 4
Mobile	0.0000	0.0000	0.0000	0.0000	21.8199	0.0000	21.8199	5.3558	0.0000	5.3558	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	510.4715	0.0000	510.4715	30.1680	0.0000	1,264.671 6
Water						0.0000	0.0000		0.0000	0.0000	63.1360	1,633.692 5	1,696.828 5	6.5504	0.1667	1,910.272 4
Total	279.3816	7.6441	346.6409	0.6023	21.8199	45.7092	67.5290	5.3558	45.7092	51.0650	4,892.403 7	12,214.93 22	17,107.33 59	41.0343	0.6054	18,313.61 19

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

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Building Construction	Building Construction	9/18/2023	3/26/2027	5	920	
2	Phase 2 Surface Improvements	Paving	2/23/2026	3/19/2027	5	280	
3	Phase 3 Site Preparation	Site Preparation	3/24/2026	5/18/2026	5	40	
4	Phase 3 Grading	Grading	5/19/2026	3/20/2028	5	480	
5	Phase 2 Building Construction	Building Construction	9/28/2026	6/28/2029	5	720	
6	Phase 3 Utilities	Trenching	11/22/2027	12/14/2028	5	280	
7	Phase 3 Surface Improvements	Paving	5/22/2028	6/14/2029	5	280	
8	Phase 4 Site Preparation	Site Preparation	6/20/2028	8/11/2028	5	40	
9	Phase 4 Grading	Grading	8/14/2028	6/14/2030	5	480	
10	Phase 3 Building Construction	Building Construction	12/18/2028	7/25/2031	5	680	
11	Phase 4 Utilities	Trenching	8/20/2029	11/8/2030	5	320	
12	Phase 4 Surface Improvements	Paving	2/25/2030	3/21/2031	5	280	
13	Phase 4 Building Construction	Building Construction	11/25/2030	7/1/2033	5	680	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	5	1.00	300	0.38

Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 2 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 2 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 2 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 2 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 2 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 2 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 3 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 3 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 3 Grading	Excavators	1	1.10	760	0.38
Phase 3 Grading	Graders	1	2.60	275	0.41
Phase 3 Grading	Graders	1	1.10	275	0.41
Phase 3 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 3 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 3 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 3 Grading	Plate Compactors	1	2.60	554	0.43
Phase 3 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	436	0.40

Phase 3 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 3 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 3 Grading	Scrapers	10	2.60	600	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 2 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 3 Utilities	Excavators	1	1.80	417	0.38
Phase 3 Utilities	Excavators	1	0.90	235	0.38
Phase 3 Utilities	Excavators	1	1.70	235	0.38
Phase 3 Utilities	Excavators	1	2.00	235	0.38
Phase 3 Utilities	Excavators	1	1.30	417	0.38
Phase 3 Utilities	Excavators	1	0.60	235	0.38
Phase 3 Utilities	Excavators	1	5.50	235	0.38
Phase 3 Utilities	Excavators	1	0.50	417	0.38
Phase 3 Utilities	Excavators	1	0.30	235	0.38
Phase 3 Utilities	Excavators	1	0.30	235	0.38
Phase 3 Utilities	Excavators	1	3.60	140	0.38
Phase 3 Utilities	Excavators	1	2.10	85	0.38
Phase 3 Utilities	Excavators	1	1.60	417	0.38
Phase 3 Utilities	Excavators	1	0.80	235	0.38
Phase 3 Utilities	Excavators	1	2.40	235	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.50	170	0.38

Phase 3 Utilities	Off-Highway Trucks	1	0.80	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	1.90	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.00	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.80	170	0.38
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.40	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.90	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	2.70	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.40	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.10	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	3.00	164	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 3 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 3 Surface Improvements	Graders	1	0.60	150	0.41
Phase 3 Surface Improvements	Graders	1	0.60	150	0.41
Phase 3 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 3 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 3 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 3 Surface Improvements	Rollers	1	0.60	102	0.38

Phase 3 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 3 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 3 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 3 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 3 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 4 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 4 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 4 Grading	Excavators	1	1.10	760	0.38
Phase 4 Grading	Graders	1	2.60	275	0.41
Phase 4 Grading	Graders	1	1.10	275	0.41
Phase 4 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 4 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 4 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 4 Grading	Plate Compactors	1	2.60	554	0.43
Phase 4 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 4 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 4 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 4 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 4 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 4 Grading	Scrapers	10	2.60	600	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 3 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 3 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 3 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 3 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 3 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 4 Utilities	Excavators	1	1.60	417	0.38
Phase 4 Utilities	Excavators	1	0.80	235	0.38
Phase 4 Utilities	Excavators	1	1.50	235	0.38
Phase 4 Utilities	Excavators	1	1.80	235	0.38

Phase 4 Utilities	Excavators	1	1.10	417	0.38
Phase 4 Utilities	Excavators	1	0.60	235	0.38
Phase 4 Utilities	Excavators	1	4.80	235	0.38
Phase 4 Utilities	Excavators	1	0.50	417	0.38
Phase 4 Utilities	Excavators	1	0.20	235	0.38
Phase 4 Utilities	Excavators	1	0.20	235	0.38
Phase 4 Utilities	Excavators	1	3.10	140	0.38
Phase 4 Utilities	Excavators	1	1.90	85	0.38
Phase 4 Utilities	Excavators	1	1.40	417	0.38
Phase 4 Utilities	Excavators	1	0.70	235	0.38
Phase 4 Utilities	Excavators	1	2.10	235	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.70	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	1.70	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.00	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.70	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.90	170	0.37

Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.80	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	2.40	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.30	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.10	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	2.70	164	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 4 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 4 Surface Improvements	Graders	1	0.60	150	0.41
Phase 4 Surface Improvements	Graders	1	0.60	150	0.41
Phase 4 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 4 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 4 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 4 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 4 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 4 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 4 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 4 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 4 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 4 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 4 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 4 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 4 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Cranes	1	7.00	231	0.29

Phase 3 Building Construction	Cranes	1	7.00	231	0.29
Phase 4 Building Construction	Cranes	1	7.00	231	0.29
Phase 2 Building Construction	Cranes	1	7.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Building Construction	18	1,099.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	29	73.00	0.00	17,355.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	18	588.00	165.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Utilities	43	108.00	0.00	280.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT

Phase 3 Surface	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	29	73.00	0.00	7,856.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	18	525.00	147.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Utilities	43	108.00	0.00	320.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Surface	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	18	838.00	235.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0820	0.7034	0.8661	1.5300e-003		0.0334	0.0334		0.0313	0.0313	0.0000	132.9829	132.9829	0.0356	0.0000	133.8722
Total	0.0820	0.7034	0.8661	1.5300e-003		0.0334	0.0334		0.0313	0.0313	0.0000	132.9829	132.9829	0.0356	0.0000	133.8722

Unmitigated Construction Off-Site

Vendor	0.0260	0.8920	0.2765	3.0200e-003	0.0634	1.0700e-003	0.0645	0.0189	1.0200e-003	0.0199	0.0000	295.3607	295.3607	0.0201	0.0000	295.8628
Worker	0.1285	0.0851	0.8865	2.9600e-003	0.2561	2.2400e-003	0.2583	0.0696	2.0700e-003	0.0716	0.0000	267.4961	267.4961	6.9300e-003	0.0000	267.6694
Total	0.1545	0.9771	1.1630	5.9800e-003	0.3195	3.3100e-003	0.3228	0.0885	3.0900e-003	0.0916	0.0000	562.8568	562.8568	0.0270	0.0000	563.5322

3.2 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2703	2.2795	3.0174	5.3600e-003		0.1024	0.1024		0.0959	0.0959	0.0000	464.6319	464.6319	0.1239	0.0000	467.7285
Total	0.2703	2.2795	3.0174	5.3600e-003		0.1024	0.1024		0.0959	0.0959	0.0000	464.6319	464.6319	0.1239	0.0000	467.7285

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0875	3.0722	0.9351	0.0105	0.2713	3.6400e-003	0.2749	0.0783	3.4700e-003	0.0818	0.0000	1,025.2355	1,025.2355	0.0693	0.0000	1,026.9679
Worker	0.4269	0.2726	2.8921	9.9200e-003	1.1545	7.6900e-003	1.1622	0.3068	7.0800e-003	0.3139	0.0000	897.6649	897.6649	0.0222	0.0000	898.2209
Total	0.5144	3.3448	3.8272	0.0204	1.4258	0.0113	1.4371	0.3851	0.0106	0.3957	0.0000	1,922.9004	1,922.9004	0.0915	0.0000	1,925.1888

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1953	1.6160	3.2802	5.3600e-003		0.0717	0.0717		0.0680	0.0680	0.0000	464.6314	464.6314	0.1239	0.0000	467.7279
Total	0.1953	1.6160	3.2802	5.3600e-003		0.0717	0.0717		0.0680	0.0680	0.0000	464.6314	464.6314	0.1239	0.0000	467.7279

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0875	3.0722	0.9351	0.0105	0.2214	3.6400e-003	0.2250	0.0661	3.4700e-003	0.0696	0.0000	1,025.2355	1,025.2355	0.0693	0.0000	1,026.9679
Worker	0.4269	0.2726	2.8921	9.9200e-003	0.8946	7.6900e-003	0.9023	0.2430	7.0800e-003	0.2501	0.0000	897.6649	897.6649	0.0222	0.0000	898.2209
Total	0.5144	3.3448	3.8272	0.0204	1.1160	0.0113	1.1273	0.3091	0.0106	0.3196	0.0000	1,922.9004	1,922.9004	0.0915	0.0000	1,925.1888

3.2 Phase 1 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374

Total	0.2524	2.0822	2.9918	5.3400e-003		0.0887	0.0887		0.0830	0.0830	0.0000	462.8635	462.8635	0.1230	0.0000	465.9374
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0846	3.0159	0.9127	0.0103	0.2703	3.5100e-003	0.2738	0.0780	3.3600e-003	0.0814	0.0000	1,015.1093	1,015.1093	0.0683	0.0000	1,016.8166
Worker	0.4061	0.2504	2.6891	9.4800e-003	1.1501	7.5400e-003	1.1577	0.3056	6.9400e-003	0.3126	0.0000	858.0879	858.0879	0.0205	0.0000	858.5991
Total	0.4907	3.2663	3.6018	0.0198	1.4204	0.0111	1.4314	0.3836	0.0103	0.3939	0.0000	1,873.1972	1,873.1972	0.0887	0.0000	1,875.4157

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1832	1.5040	3.2581	5.3400e-003		0.0626	0.0626		0.0593	0.0593	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369
Total	0.1832	1.5040	3.2581	5.3400e-003		0.0626	0.0626		0.0593	0.0593	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369

Mitigated Construction Off-Site

Vendor	0.0824	2.9727	0.8997	0.0103	0.2702	3.4100e-003	0.2737	0.0780	3.2600e-003	0.0813	0.0000	1,009.2985	1,009.2985	0.0676	0.0000	1,010.9882
Worker	0.3894	0.2329	2.5270	9.1400e-003	1.1501	7.3100e-003	1.1574	0.3056	6.7200e-003	0.3123	0.0000	826.6624	826.6624	0.0191	0.0000	827.1386
Total	0.4718	3.2056	3.4266	0.0194	1.4203	0.0107	1.4311	0.3836	9.9800e-003	0.3936	0.0000	1,835.9609	1,835.9609	0.0866	0.0000	1,838.1268

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1832	1.5040	3.2581	5.3400e-003		0.0626	0.0626		0.0593	0.0593	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369
Total	0.1832	1.5040	3.2581	5.3400e-003		0.0626	0.0626		0.0593	0.0593	0.0000	462.8629	462.8629	0.1230	0.0000	465.9369

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0824	2.9727	0.8997	0.0103	0.2206	3.4100e-003	0.2240	0.0658	3.2600e-003	0.0691	0.0000	1,009.2985	1,009.2985	0.0676	0.0000	1,010.9882
Worker	0.3894	0.2329	2.5270	9.1400e-003	0.8912	7.3100e-003	0.8985	0.2421	6.7200e-003	0.2488	0.0000	826.6624	826.6624	0.0191	0.0000	827.1386
Total	0.4718	3.2056	3.4266	0.0194	1.1117	0.0107	1.1225	0.3079	9.9800e-003	0.3179	0.0000	1,835.9609	1,835.9609	0.0866	0.0000	1,838.1268

3.2 Phase 1 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0590	0.4867	0.6992	1.2500e-003		0.0207	0.0207		0.0194	0.0194	0.0000	108.1788	108.1788	0.0287	0.0000	108.8973
Total	0.0590	0.4867	0.6992	1.2500e-003		0.0207	0.0207		0.0194	0.0194	0.0000	108.1788	108.1788	0.0287	0.0000	108.8973

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0188	0.6851	0.2077	2.3800e-003	0.0632	7.8000e-004	0.0639	0.0182	7.4000e-004	0.0190	0.0000	234.6446	234.6446	0.0157	0.0000	235.0360
Worker	0.0871	0.0508	0.5570	2.0600e-003	0.2688	1.6200e-003	0.2704	0.0714	1.4900e-003	0.0729	0.0000	186.7324	186.7324	4.1700e-003	0.0000	186.8366
Total	0.1059	0.7359	0.7647	4.4400e-003	0.3320	2.4000e-003	0.3344	0.0897	2.2300e-003	0.0919	0.0000	421.3771	421.3771	0.0198	0.0000	421.8726

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.3515	0.7615	1.2500e-003		0.0146	0.0146		0.0139	0.0139	0.0000	108.1787	108.1787	0.0287	0.0000	108.8971

Total	0.0428	0.3515	0.7615	1.2500e-003		0.0146	0.0146		0.0139	0.0139	0.0000	108.1787	108.1787	0.0287	0.0000	108.8971
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0188	0.6851	0.2077	2.3800e-003	0.0516	7.8000e-004	0.0523	0.0154	7.4000e-004	0.0161	0.0000	234.6446	234.6446	0.0157	0.0000	235.0360
Worker	0.0871	0.0508	0.5570	2.0600e-003	0.2083	1.6200e-003	0.2099	0.0566	1.4900e-003	0.0581	0.0000	186.7324	186.7324	4.1700e-003	0.0000	186.8366
Total	0.1059	0.7359	0.7647	4.4400e-003	0.2598	2.4000e-003	0.2622	0.0720	2.2300e-003	0.0742	0.0000	421.3771	421.3771	0.0198	0.0000	421.8726

3.3 Phase 2 Surface Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0688	0.4687	0.5938	1.7000e-003		0.0196	0.0196		0.0180	0.0180	0.0000	149.4191	149.4191	0.0483	0.0000	150.6272
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0688	0.4687	0.5938	1.7000e-003		0.0196	0.0196		0.0180	0.0180	0.0000	149.4191	149.4191	0.0483	0.0000	150.6272

Unmitigated Construction Off-Site

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0456	0.0273	0.2960	1.0700e-003	0.1044	8.6000e-004	0.1053	0.0284	7.9000e-004	0.0291	0.0000	96.8343	96.8343	2.2300e-003	0.0000	96.8901
Total	0.0456	0.0273	0.2960	1.0700e-003	0.1044	8.6000e-004	0.1053	0.0284	7.9000e-004	0.0291	0.0000	96.8343	96.8343	2.2300e-003	0.0000	96.8901

3.3 Phase 2 Surface Improvements - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0172	0.1172	0.1485	4.3000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	37.3548	37.3548	0.0121	0.0000	37.6568
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0172	0.1172	0.1485	4.3000e-004		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	37.3548	37.3548	0.0121	0.0000	37.6568

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0337	2.0000e-004	0.0339	8.9500e-003	1.9000e-004	9.1400e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107
Total	0.0109	6.3700e-003	0.0698	2.6000e-004	0.0337	2.0000e-004	0.0339	8.9500e-003	1.9000e-004	9.1400e-003	0.0000	23.3976	23.3976	5.2000e-004	0.0000	23.4107

Mitigated Construction On-Site

Off-Road	0.0254	0.2396	0.2929	4.9000e-004		0.0100	0.0100		9.2000e-003	9.2000e-003	0.0000	43.0347	43.0347	0.0139	0.0000	43.3826
Total	0.0254	0.2396	0.2929	4.9000e-004	0.1738	0.0100	0.1838	0.0467	9.2000e-003	0.0559	0.0000	43.0347	43.0347	0.0139	0.0000	43.3826

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7100e-003	3.8000e-004	0.0000	0.0393	0.0000	0.0394	3.9300e-003	0.0000	3.9300e-003	0.0000	0.3664	0.3664	4.0000e-005	0.0000	0.3674
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	3.0000e-004	1.8700e-003	2.1400e-003	1.0000e-005	0.0401	1.0000e-005	0.0402	4.1400e-003	0.0000	4.1500e-003	0.0000	0.9428	0.9428	5.0000e-005	0.0000	0.9441

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0427	0.0000	0.0427	0.0115	0.0000	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3600e-003	0.0680	0.2909	4.9000e-004		2.5600e-003	2.5600e-003		2.4100e-003	2.4100e-003	0.0000	43.0346	43.0346	0.0139	0.0000	43.3826
Total	9.3600e-003	0.0680	0.2909	4.9000e-004	0.0427	2.5600e-003	0.0453	0.0115	2.4100e-003	0.0139	0.0000	43.0346	43.0346	0.0139	0.0000	43.3826

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7100e-003	3.8000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3664	0.3664	4.0000e-005	0.0000	0.3674
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.6000e-004	1.7600e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5764	0.5764	1.0000e-005	0.0000	0.5767
Total	3.0000e-004	1.8700e-003	2.1400e-003	1.0000e-005	9.0700e-003	1.0000e-005	9.0800e-003	1.0200e-003	0.0000	1.0200e-003	0.0000	0.9428	0.9428	5.0000e-005	0.0000	0.9441

3.5 Phase 3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4725	0.0000	0.4725	0.2109	0.0000	0.2109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4538	4.2872	3.2102	9.8400e-003		0.1651	0.1651		0.1519	0.1519	0.0000	864.0402	864.0402	0.2795	0.0000	871.0264
Total	0.4538	4.2872	3.2102	9.8400e-003	0.4725	0.1651	0.6377	0.2109	0.1519	0.3628	0.0000	864.0402	864.0402	0.2795	0.0000	871.0264

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7800e-003	0.2524	0.0555	5.4000e-004	17.0668	1.7000e-004	17.0670	1.7048	1.6000e-004	1.7049	0.0000	53.9830	53.9830	5.9200e-003	0.0000	54.1309

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	9.6600e-003	0.1048	3.8000e-004	0.0477	3.0000e-004	0.0480	0.0127	2.8000e-004	0.0130	0.0000	34.2926	34.2926	7.9000e-004	0.0000	34.3124
Total	0.0209	0.2620	0.1603	9.2000e-004	17.1145	4.7000e-004	17.1150	1.7175	4.4000e-004	1.7179	0.0000	88.2756	88.2756	6.7100e-003	0.0000	88.4433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1161	0.0000	0.1161	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1213	0.5284	4.4229	9.8400e-003		0.0163	0.0163		0.0163	0.0163	0.0000	864.0392	864.0392	0.2795	0.0000	871.0254
Total	0.1213	0.5284	4.4229	9.8400e-003	0.1161	0.0163	0.1324	0.0518	0.0163	0.0681	0.0000	864.0392	864.0392	0.2795	0.0000	871.0254

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7800e-003	0.2524	0.0555	5.4000e-004	3.6631	1.7000e-004	3.6633	0.3665	1.6000e-004	0.3666	0.0000	53.9830	53.9830	5.9200e-003	0.0000	54.1309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0162	9.6600e-003	0.1048	3.8000e-004	0.0370	3.0000e-004	0.0373	0.0100	2.8000e-004	0.0103	0.0000	34.2926	34.2926	7.9000e-004	0.0000	34.3124
Total	0.0209	0.2620	0.1603	9.2000e-004	3.7001	4.7000e-004	3.7006	0.3765	4.4000e-004	0.3769	0.0000	88.2756	88.2756	6.7100e-003	0.0000	88.4433

3.5 Phase 3 Grading - 2027

Unmitigated Construction On-Site

Off-Road	0.1942	0.8462	7.0821	0.0158		0.0261	0.0261		0.0261	0.0261	0.0000	1,383.5229	1,383.5229	0.4475	0.0000	1,394.7093
Total	0.1942	0.8462	7.0821	0.0158	0.1696	0.0261	0.1957	0.0812	0.0261	0.1073	0.0000	1,383.5229	1,383.5229	0.4475	0.0000	1,394.7093

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5300e-003	0.3986	0.0893	8.5000e-004	3.6643	2.6000e-004	3.6645	0.3669	2.5000e-004	0.3671	0.0000	85.7791	85.7791	9.3000e-003	0.0000	86.0115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0144	0.1583	5.9000e-004	0.0592	4.6000e-004	0.0597	0.0161	4.2000e-004	0.0165	0.0000	53.0708	53.0708	1.1800e-003	0.0000	53.1004
Total	0.0323	0.4131	0.2476	1.4400e-003	3.7235	7.2000e-004	3.7242	0.3830	6.7000e-004	0.3836	0.0000	138.8499	138.8499	0.0105	0.0000	139.1119

3.5 Phase 3 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2349	0.0000	0.2349	0.0803	0.0000	0.0803	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1559	1.4729	1.1029	3.3800e-003		0.0567	0.0567		0.0522	0.0522	0.0000	296.8482	296.8482	0.0960	0.0000	299.2483
Total	0.1559	1.4729	1.1029	3.3800e-003	0.2349	0.0567	0.2917	0.0803	0.0522	0.1325	0.0000	296.8482	296.8482	0.0960	0.0000	299.2483

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5900e-003	0.0845	0.0194	1.8000e-004	17.0655	5.0000e-005	17.0656	1.7043	5.0000e-005	1.7044	0.0000	18.2790	18.2790	1.9600e-003	0.0000	18.3280
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0600e-003	2.9000e-003	0.0322	1.2000e-004	0.0164	9.0000e-005	0.0165	4.3600e-003	8.0000e-005	4.4400e-003	0.0000	11.0405	11.0405	2.4000e-004	0.0000	11.0465
Total	6.6500e-003	0.0874	0.0516	3.0000e-004	17.0819	1.4000e-004	17.0820	1.7087	1.3000e-004	1.7088	0.0000	29.3195	29.3195	2.2000e-003	0.0000	29.3745

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0577	0.0000	0.0577	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0417	0.1816	1.5195	3.3800e-003		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	296.8478	296.8478	0.0960	0.0000	299.2480
Total	0.0417	0.1816	1.5195	3.3800e-003	0.0577	5.6000e-003	0.0633	0.0197	5.6000e-003	0.0253	0.0000	296.8478	296.8478	0.0960	0.0000	299.2480

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5900e-003	0.0845	0.0194	1.8000e-004	3.6618	5.0000e-005	3.6619	0.3660	5.0000e-005	0.3660	0.0000	18.2790	18.2790	1.9600e-003	0.0000	18.3280

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0600e-003	2.9000e-003	0.0322	1.2000e-004	0.0127	9.0000e-005	0.0128	3.4500e-003	8.0000e-005	3.5300e-003	0.0000	11.0405	11.0405	2.4000e-004	0.0000	11.0465
Total	6.6500e-003	0.0874	0.0516	3.0000e-004	3.6745	1.4000e-004	3.6747	0.3694	1.3000e-004	0.3696	0.0000	29.3195	29.3195	2.2000e-003	0.0000	29.3745

3.6 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0620	0.5209	0.7174	1.3100e-003		0.0220	0.0220		0.0206	0.0206	0.0000	112.9387	112.9387	0.0295	0.0000	113.6752
Total	0.0620	0.5209	0.7174	1.3100e-003		0.0220	0.0220		0.0206	0.0206	0.0000	112.9387	112.9387	0.0295	0.0000	113.6752

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0115	0.4156	0.1258	1.4300e-003	0.0378	4.8000e-004	0.0383	0.0109	4.6000e-004	0.0114	0.0000	141.1099	141.1099	9.4500e-003	0.0000	141.3462
Worker	0.0551	0.0329	0.3574	1.2900e-003	0.1627	1.0300e-003	0.1637	0.0432	9.5000e-004	0.0442	0.0000	116.9274	116.9274	2.6900e-003	0.0000	116.9948
Total	0.0666	0.4486	0.4832	2.7200e-003	0.2005	1.5100e-003	0.2020	0.0541	1.4100e-003	0.0555	0.0000	258.0374	258.0374	0.0121	0.0000	258.3409

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0471	0.3919	0.7795	1.3100e-003		0.0164	0.0164		0.0155	0.0155	0.0000	112.9386	112.9386	0.0295	0.0000	113.6750
Total	0.0471	0.3919	0.7795	1.3100e-003		0.0164	0.0164		0.0155	0.0155	0.0000	112.9386	112.9386	0.0295	0.0000	113.6750

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0115	0.4156	0.1258	1.4300e-003	0.0308	4.8000e-004	0.0313	9.2000e-003	4.6000e-004	9.6600e-003	0.0000	141.1099	141.1099	9.4500e-003	0.0000	141.3462
Worker	0.0551	0.0329	0.3574	1.2900e-003	0.1261	1.0300e-003	0.1271	0.0342	9.5000e-004	0.0352	0.0000	116.9274	116.9274	2.6900e-003	0.0000	116.9948
Total	0.0666	0.4486	0.4832	2.7200e-003	0.1569	1.5100e-003	0.1584	0.0434	1.4100e-003	0.0449	0.0000	258.0374	258.0374	0.0121	0.0000	258.3409

3.6 Phase 2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887

Total	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0426	1.5502	0.4699	5.3900e-003	0.1429	1.7600e-003	0.1447	0.0413	1.6800e-003	0.0429	0.0000	530.9464	530.9464	0.0354	0.0000	531.8319
Worker	0.1994	0.1163	1.2752	4.7200e-003	0.6153	3.7000e-003	0.6190	0.1635	3.4000e-003	0.1669	0.0000	427.4744	427.4744	9.5400e-003	0.0000	427.7129
Total	0.2420	1.6665	1.7451	0.0101	0.7583	5.4600e-003	0.7637	0.2048	5.0800e-003	0.2099	0.0000	958.4207	958.4207	0.0450	0.0000	959.5448

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1781	1.4823	2.9486	4.9400e-003		0.0619	0.0619		0.0587	0.0587	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882
Total	0.1781	1.4823	2.9486	4.9400e-003		0.0619	0.0619		0.0587	0.0587	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882

Mitigated Construction Off-Site

Vendor	0.0417	1.5261	0.4651	5.3400e-003	0.1424	1.7200e-003	0.1441	0.0411	1.6400e-003	0.0428	0.0000	526.5660	526.5660	0.0350	0.0000	527.4408
Worker	0.1892	0.1086	1.2037	4.5600e-003	0.6130	3.4100e-003	0.6164	0.1629	3.1400e-003	0.1660	0.0000	412.8855	412.8855	8.9600e-003	0.0000	413.1094
Total	0.2309	1.6347	1.6688	9.9000e-003	0.7554	5.1300e-003	0.7605	0.2040	4.7800e-003	0.2088	0.0000	939.4515	939.4515	0.0440	0.0000	940.5502

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1775	1.4766	2.9373	4.9200e-003		0.0617	0.0617		0.0584	0.0584	0.0000	425.5657	425.5657	0.1110	0.0000	428.3407
Total	0.1775	1.4766	2.9373	4.9200e-003		0.0617	0.0617		0.0584	0.0584	0.0000	425.5657	425.5657	0.1110	0.0000	428.3407

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0417	1.5261	0.4651	5.3400e-003	0.1162	1.7200e-003	0.1179	0.0347	1.6400e-003	0.0363	0.0000	526.5660	526.5660	0.0350	0.0000	527.4408
Worker	0.1892	0.1086	1.2037	4.5600e-003	0.4750	3.4100e-003	0.4784	0.1290	3.1400e-003	0.1322	0.0000	412.8855	412.8855	8.9600e-003	0.0000	413.1094
Total	0.2309	1.6347	1.6688	9.9000e-003	0.5912	5.1300e-003	0.5963	0.1637	4.7800e-003	0.1685	0.0000	939.4515	939.4515	0.0440	0.0000	940.5502

3.6 Phase 2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1159	0.9739	1.3412	2.4400e-003		0.0412	0.0412		0.0386	0.0386	0.0000	211.1463	211.1463	0.0551	0.0000	212.5231
Total	0.1159	0.9739	1.3412	2.4400e-003		0.0412	0.0412		0.0386	0.0386	0.0000	211.1463	211.1463	0.0551	0.0000	212.5231

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.7479	0.2291	2.6400e-003	0.0706	8.3000e-004	0.0715	0.0204	7.9000e-004	0.0212	0.0000	260.1177	260.1177	0.0173	0.0000	260.5491
Worker	0.0888	0.0505	0.5658	2.2000e-003	0.3041	1.5700e-003	0.3057	0.0808	1.4500e-003	0.0823	0.0000	199.2056	199.2056	4.1900e-003	0.0000	199.3104
Total	0.1091	0.7985	0.7949	4.8400e-003	0.3748	2.4000e-003	0.3772	0.1012	2.2400e-003	0.1035	0.0000	459.3233	459.3233	0.0215	0.0000	459.8595

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0880	0.7326	1.4574	2.4400e-003		0.0306	0.0306		0.0290	0.0290	0.0000	211.1461	211.1461	0.0551	0.0000	212.5229

Total	0.0880	0.7326	1.4574	2.4400e-003		0.0306	0.0306		0.0290	0.0290	0.0000	211.1461	211.1461	0.0551	0.0000	212.5229
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.7479	0.2291	2.6400e-003	0.0577	8.3000e-004	0.0585	0.0172	7.9000e-004	0.0180	0.0000	260.1177	260.1177	0.0173	0.0000	260.5491
Worker	0.0888	0.0505	0.5658	2.2000e-003	0.2357	1.5700e-003	0.2372	0.0640	1.4500e-003	0.0655	0.0000	199.2056	199.2056	4.1900e-003	0.0000	199.3104
Total	0.1091	0.7985	0.7949	4.8400e-003	0.2933	2.4000e-003	0.2957	0.0812	2.2400e-003	0.0835	0.0000	459.3233	459.3233	0.0215	0.0000	459.8595

3.7 Phase 3 Utilities - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0198	0.1371	0.2442	6.5000e-004		5.5500e-003	5.5500e-003		5.1000e-003	5.1000e-003	0.0000	56.7780	56.7780	0.0184	0.0000	57.2371
Total	0.0198	0.1371	0.2442	6.5000e-004		5.5500e-003	5.5500e-003		5.1000e-003	5.1000e-003	0.0000	56.7780	56.7780	0.0184	0.0000	57.2371

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.2700e-003	2.8000e-004	0.0000	0.2753	0.0000	0.2753	0.0275	0.0000	0.0275	0.0000	0.2727	0.2727	3.0000e-005	0.0000	0.2734
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2100e-003	2.4600e-003	0.0269	1.0000e-004	0.0130	8.0000e-005	0.0131	3.4500e-003	7.0000e-005	3.5200e-003	0.0000	9.0248	9.0248	2.0000e-004	0.0000	9.0298
Total	4.2300e-003	3.7300e-003	0.0272	1.0000e-004	0.2883	8.0000e-005	0.2884	0.0310	7.0000e-005	0.0310	0.0000	9.2975	9.2975	2.3000e-004	0.0000	9.3033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.1900e-003	0.0455	0.3567	6.5000e-004		1.6700e-003	1.6700e-003		1.6100e-003	1.6100e-003	0.0000	56.7779	56.7779	0.0184	0.0000	57.2370
Total	9.1900e-003	0.0455	0.3567	6.5000e-004		1.6700e-003	1.6700e-003		1.6100e-003	1.6100e-003	0.0000	56.7779	56.7779	0.0184	0.0000	57.2370

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.2700e-003	2.8000e-004	0.0000	0.0591	0.0000	0.0591	5.9000e-003	0.0000	5.9100e-003	0.0000	0.2727	0.2727	3.0000e-005	0.0000	0.2734

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2100e-003	2.4600e-003	0.0269	1.0000e-004	0.0101	8.0000e-005	0.0101	2.7300e-003	7.0000e-005	2.8100e-003	0.0000	9.0248	9.0248	2.0000e-004	0.0000	9.0298
Total	4.2300e-003	3.7300e-003	0.0272	1.0000e-004	0.0692	8.0000e-005	0.0692	8.6300e-003	7.0000e-005	8.7200e-003	0.0000	9.2975	9.2975	2.3000e-004	0.0000	9.3033

3.7 Phase 3 Utilities - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1647	1.1383	2.0271	5.3700e-003		0.0461	0.0461		0.0424	0.0424	0.0000	471.2572	471.2572	0.1524	0.0000	475.0676
Total	0.1647	1.1383	2.0271	5.3700e-003		0.0461	0.0461		0.0424	0.0424	0.0000	471.2572	471.2572	0.1524	0.0000	475.0676

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	0.0104	2.3800e-003	2.0000e-005	0.2754	1.0000e-005	0.2754	0.0275	1.0000e-005	0.0275	0.0000	2.2479	2.2479	2.4000e-004	0.0000	2.2539
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0191	0.2117	8.0000e-004	0.1078	6.0000e-004	0.1084	0.0287	5.5000e-004	0.0292	0.0000	72.6277	72.6277	1.5800e-003	0.0000	72.6670
Total	0.0335	0.0295	0.2141	8.2000e-004	0.3832	6.1000e-004	0.3838	0.0562	5.6000e-004	0.0567	0.0000	74.8756	74.8756	1.8200e-003	0.0000	74.9210

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0763	0.3780	2.9609	5.3700e-003		0.0138	0.0138		0.0134	0.0134	0.0000	471.2566	471.2566	0.1524	0.0000	475.0670
Total	0.0763	0.3780	2.9609	5.3700e-003		0.0138	0.0138		0.0134	0.0134	0.0000	471.2566	471.2566	0.1524	0.0000	475.0670

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	0.0104	2.3800e-003	2.0000e-005	0.0592	1.0000e-005	0.0592	5.9300e-003	1.0000e-005	5.9400e-003	0.0000	2.2479	2.2479	2.4000e-004	0.0000	2.2539
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0191	0.2117	8.0000e-004	0.0836	6.0000e-004	0.0842	0.0227	5.5000e-004	0.0233	0.0000	72.6277	72.6277	1.5800e-003	0.0000	72.6670
Total	0.0335	0.0295	0.2141	8.2000e-004	0.1427	6.1000e-004	0.1433	0.0286	5.6000e-004	0.0292	0.0000	74.8756	74.8756	1.8200e-003	0.0000	74.9210

3.8 Phase 3 Surface Improvements - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0491	0.3348	0.4242	1.2200e-003		0.0140	0.0140		0.0129	0.0129	0.0000	106.7279	106.7279	0.0345	0.0000	107.5909

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0491	0.3348	0.4242	1.2200e-003		0.0140	0.0140		0.0129	0.0129	0.0000	106.7279	106.7279	0.0345	0.0000	107.5909

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0170	0.1890	7.2000e-004	0.0962	5.4000e-004	0.0968	0.0256	4.9000e-004	0.0261	0.0000	64.8172	64.8172	1.4100e-003	0.0000	64.8523
Total	0.0297	0.0170	0.1890	7.2000e-004	0.0962	5.4000e-004	0.0968	0.0256	4.9000e-004	0.0261	0.0000	64.8172	64.8172	1.4100e-003	0.0000	64.8523

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0152	0.0741	0.6356	1.2200e-003		2.0900e-003	2.0900e-003		2.0800e-003	2.0800e-003	0.0000	106.7278	106.7278	0.0345	0.0000	107.5907
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0152	0.0741	0.6356	1.2200e-003		2.0900e-003	2.0900e-003		2.0800e-003	2.0800e-003	0.0000	106.7278	106.7278	0.0345	0.0000	107.5907

Mitigated Construction Off-Site

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0209	0.0119	0.1332	5.2000e-004	0.0716	3.7000e-004	0.0719	0.0190	3.4000e-004	0.0194	0.0000	46.8784	46.8784	9.9000e-004	0.0000	46.9031
Total	0.0209	0.0119	0.1332	5.2000e-004	0.0716	3.7000e-004	0.0719	0.0190	3.4000e-004	0.0194	0.0000	46.8784	46.8784	9.9000e-004	0.0000	46.9031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0113	0.0551	0.4727	9.0000e-004		1.5500e-003	1.5500e-003		1.5400e-003	1.5400e-003	0.0000	79.3788	79.3788	0.0257	0.0000	80.0206
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0113	0.0551	0.4727	9.0000e-004		1.5500e-003	1.5500e-003		1.5400e-003	1.5400e-003	0.0000	79.3788	79.3788	0.0257	0.0000	80.0206

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0209	0.0119	0.1332	5.2000e-004	0.0555	3.7000e-004	0.0558	0.0151	3.4000e-004	0.0154	0.0000	46.8784	46.8784	9.9000e-004	0.0000	46.9031
Total	0.0209	0.0119	0.1332	5.2000e-004	0.0555	3.7000e-004	0.0558	0.0151	3.4000e-004	0.0154	0.0000	46.8784	46.8784	9.9000e-004	0.0000	46.9031

3.9 Phase 4 Site Preparation - 2028

Unmitigated Construction On-Site

Off-Road	9.1300e-003	0.0663	0.2836	4.8000e-004		2.5000e-003	2.5000e-003		2.3500e-003	2.3500e-003	0.0000	41.9588	41.9588	0.0136	0.0000	42.2980
Total	9.1300e-003	0.0663	0.2836	4.8000e-004	0.0416	2.5000e-003	0.0441	0.0112	2.3500e-003	0.0135	0.0000	41.9588	41.9588	0.0136	0.0000	42.2980

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.6300e-003	3.7000e-004	0.0000	8.4500e-003	0.0000	8.4500e-003	8.5000e-004	0.0000	8.5000e-004	0.0000	0.3521	0.3521	4.0000e-005	0.0000	0.3530
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.5400e-003	1.0000e-005	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5266	0.5266	1.0000e-005	0.0000	0.5269
Total	2.7000e-004	1.7700e-003	1.9100e-003	1.0000e-005	9.0600e-003	0.0000	9.0600e-003	1.0100e-003	0.0000	1.0200e-003	0.0000	0.8787	0.8787	5.0000e-005	0.0000	0.8800

3.10 Phase 4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3326	0.0000	0.3326	0.1340	0.0000	0.1340	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2784	2.6302	1.9695	6.0400e-003		0.1013	0.1013		0.0932	0.0932	0.0000	530.0860	530.0860	0.1714	0.0000	534.3720
Total	0.2784	2.6302	1.9695	6.0400e-003	0.3326	0.1013	0.4339	0.1340	0.0932	0.2272	0.0000	530.0860	530.0860	0.1714	0.0000	534.3720

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2900e-003	0.0683	0.0157	1.5000e-004	7.7252	4.0000e-005	7.7252	0.7716	4.0000e-005	0.7716	0.0000	14.7755	14.7755	1.5800e-003	0.0000	14.8151
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0300e-003	5.1800e-003	0.0575	2.2000e-004	0.0293	1.6000e-004	0.0294	7.7800e-003	1.5000e-004	7.9300e-003	0.0000	19.7152	19.7152	4.3000e-004	0.0000	19.7259
Total	0.0103	0.0735	0.0731	3.7000e-004	7.7545	2.0000e-004	7.7547	0.7794	1.9000e-004	0.7795	0.0000	34.4907	34.4907	2.0100e-003	0.0000	34.5410

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0817	0.0000	0.0817	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0744	0.3242	2.7134	6.0400e-003		0.0100	0.0100		9.9900e-003	9.9900e-003	0.0000	530.0854	530.0854	0.1714	0.0000	534.3714
Total	0.0744	0.3242	2.7134	6.0400e-003	0.0817	0.0100	0.0917	0.0329	9.9900e-003	0.0429	0.0000	530.0854	530.0854	0.1714	0.0000	534.3714

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2900e-003	0.0683	0.0157	1.5000e-004	1.6578	4.0000e-005	1.6579	0.1658	4.0000e-005	0.1658	0.0000	14.7755	14.7755	1.5800e-003	0.0000	14.8151

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0300e-003	5.1800e-003	0.0575	2.2000e-004	0.0227	1.6000e-004	0.0228	6.1600e-003	1.5000e-004	6.3100e-003	0.0000	19.7152	19.7152	4.3000e-004	0.0000	19.7259
Total	0.0103	0.0735	0.0731	3.7000e-004	1.6805	2.0000e-004	1.6807	0.1719	1.9000e-004	0.1721	0.0000	34.4907	34.4907	2.0100e-003	0.0000	34.5410

3.10 Phase 4 Grading - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6902	0.0000	0.6902	0.3305	0.0000	0.3305	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7267	6.8648	5.1403	0.0158		0.2644	0.2644		0.2433	0.2433	0.0000	1,383.5245	1,383.5245	0.4475	0.0000	1,394.7110
Total	0.7267	6.8648	5.1403	0.0158	0.6902	0.2644	0.9546	0.3305	0.2433	0.5738	0.0000	1,383.5245	1,383.5245	0.4475	0.0000	1,394.7110

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3200e-003	0.1761	0.0412	3.8000e-004	7.7261	1.1000e-004	7.7262	0.7719	1.0000e-004	0.7720	0.0000	38.2982	38.2982	4.0800e-003	0.0000	38.4001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0223	0.0127	0.1421	5.5000e-004	0.0764	3.9000e-004	0.0768	0.0203	3.6000e-004	0.0207	0.0000	50.0378	50.0378	1.0500e-003	0.0000	50.0641
Total	0.0256	0.1888	0.1833	9.3000e-004	7.8025	5.0000e-004	7.8030	0.7922	4.6000e-004	0.7927	0.0000	88.3359	88.3359	5.1300e-003	0.0000	88.4641

Mitigated Construction On-Site

Off-Road	0.3885	1.6228	1.7822	7.3600e-003		0.0608	0.0608		0.0608	0.0608	0.0000	757.6281	757.6281	0.0314	0.0000	758.4122
Total	0.3885	1.6228	1.7822	7.3600e-003	0.3748	0.0608	0.4356	0.1572	0.0608	0.2180	0.0000	757.6281	757.6281	0.0314	0.0000	758.4122

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0795	0.0190	1.7000e-004	7.7253	5.0000e-005	7.7253	0.7716	5.0000e-005	0.7717	0.0000	17.3688	17.3688	1.8400e-003	0.0000	17.4147
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.5300e-003	5.4200e-003	0.0614	2.5000e-004	0.0348	1.7000e-004	0.0350	9.2600e-003	1.5000e-004	9.4100e-003	0.0000	22.2453	22.2453	4.5000e-004	0.0000	22.2566
Total	0.0110	0.0849	0.0803	4.2000e-004	7.7601	2.2000e-004	7.7603	0.7809	2.0000e-004	0.7811	0.0000	39.6142	39.6142	2.2900e-003	0.0000	39.6713

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0921	0.0000	0.0921	0.0386	0.0000	0.0386	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0886	0.3827	3.2289	7.3600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	757.6272	757.6272	0.0314	0.0000	758.4113
Total	0.0886	0.3827	3.2289	7.3600e-003	0.0921	0.0118	0.1039	0.0386	0.0118	0.0504	0.0000	757.6272	757.6272	0.0314	0.0000	758.4113

Mitigated Construction Off-Site

Vendor	1.4300e-003	0.0523	0.0159	1.8000e-004	4.8800e-003	6.0000e-005	4.9400e-003	1.4100e-003	6.0000e-005	1.4600e-003	0.0000	18.0432	18.0432	1.2000e-003	0.0000	18.0732
Worker	6.5000e-003	3.7300e-003	0.0413	1.6000e-004	0.0211	1.2000e-004	0.0212	5.5900e-003	1.1000e-004	5.7000e-003	0.0000	14.1788	14.1788	3.1000e-004	0.0000	14.1865
Total	7.9300e-003	0.0560	0.0573	3.4000e-004	0.0259	1.8000e-004	0.0261	7.0000e-003	1.7000e-004	7.1600e-003	0.0000	32.2219	32.2219	1.5100e-003	0.0000	32.2596

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8200e-003	0.0568	0.1130	1.9000e-004		2.3700e-003	2.3700e-003		2.2500e-003	2.2500e-003	0.0000	16.3679	16.3679	4.2700e-003	0.0000	16.4746
Total	6.8200e-003	0.0568	0.1130	1.9000e-004		2.3700e-003	2.3700e-003		2.2500e-003	2.2500e-003	0.0000	16.3679	16.3679	4.2700e-003	0.0000	16.4746

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4300e-003	0.0523	0.0159	1.8000e-004	3.9800e-003	6.0000e-005	4.0400e-003	1.1900e-003	6.0000e-005	1.2400e-003	0.0000	18.0432	18.0432	1.2000e-003	0.0000	18.0732
Worker	6.5000e-003	3.7300e-003	0.0413	1.6000e-004	0.0163	1.2000e-004	0.0164	4.4300e-003	1.1000e-004	4.5400e-003	0.0000	14.1788	14.1788	3.1000e-004	0.0000	14.1865
Total	7.9300e-003	0.0560	0.0573	3.4000e-004	0.0203	1.8000e-004	0.0205	5.6200e-003	1.7000e-004	5.7800e-003	0.0000	32.2219	32.2219	1.5100e-003	0.0000	32.2596

3.11 Phase 3 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887
Total	0.2345	1.9705	2.7135	4.9400e-003		0.0833	0.0833		0.0780	0.0780	0.0000	427.2030	427.2030	0.1114	0.0000	429.9887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0366	1.3482	0.4129	4.7500e-003	0.1273	1.5000e-003	0.1288	0.0368	1.4300e-003	0.0382	0.0000	468.8718	468.8718	0.0311	0.0000	469.6494
Worker	0.1604	0.0913	1.0221	3.9800e-003	0.5494	2.8400e-003	0.5523	0.1460	2.6100e-003	0.1486	0.0000	359.8607	359.8607	7.5700e-003	0.0000	360.0499
Total	0.1970	1.4394	1.4351	8.7300e-003	0.6767	4.3400e-003	0.6811	0.1828	4.0400e-003	0.1868	0.0000	828.7324	828.7324	0.0387	0.0000	829.6993

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1781	1.4823	2.9486	4.9400e-003		0.0619	0.0619		0.0587	0.0587	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882

Total	0.1781	1.4823	2.9486	4.9400e-003		0.0619	0.0619		0.0587	0.0587	0.0000	427.2025	427.2025	0.1114	0.0000	429.9882
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0366	1.3482	0.4129	4.7500e-003	0.1039	1.5000e-003	0.1054	0.0310	1.4300e-003	0.0325	0.0000	468.8718	468.8718	0.0311	0.0000	469.6494
Worker	0.1604	0.0913	1.0221	3.9800e-003	0.4257	2.8400e-003	0.4286	0.1156	2.6100e-003	0.1183	0.0000	359.8607	359.8607	7.5700e-003	0.0000	360.0499
Total	0.1970	1.4394	1.4351	8.7300e-003	0.5296	4.3400e-003	0.5340	0.1466	4.0400e-003	0.1507	0.0000	828.7324	828.7324	0.0387	0.0000	829.6993

3.11 Phase 3 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2352	1.1817	2.7224	5.6200e-003		0.0253	0.0253		0.0253	0.0253	0.0000	492.7361	492.7361	0.0189	0.0000	493.2082
Total	0.2352	1.1817	2.7224	5.6200e-003		0.0253	0.0253		0.0253	0.0253	0.0000	492.7361	492.7361	0.0189	0.0000	493.2082

Unmitigated Construction Off-Site

Vendor	0.0362	1.3341	0.4113	4.7300e-003	0.1039	1.4700e-003	0.1054	0.0310	1.4000e-003	0.0324	0.0000	467.1990	467.1990	0.0309	0.0000	467.9725
Worker	0.1503	0.0854	0.9682	3.8800e-003	0.4257	2.6400e-003	0.4284	0.1156	2.4300e-003	0.1181	0.0000	350.8879	350.8879	7.1400e-003	0.0000	351.0664
Total	0.1864	1.4195	1.3796	8.6100e-003	0.5296	4.1100e-003	0.5337	0.1466	3.8300e-003	0.1505	0.0000	818.0869	818.0869	0.0381	0.0000	819.0389

3.11 Phase 3 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1334	0.6701	1.5437	3.1900e-003		0.0143	0.0143		0.0143	0.0143	0.0000	279.4059	279.4059	0.0107	0.0000	279.6736
Total	0.1334	0.6701	1.5437	3.1900e-003		0.0143	0.0143		0.0143	0.0143	0.0000	279.4059	279.4059	0.0107	0.0000	279.6736

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.7496	0.2325	2.6700e-003	0.0722	8.2000e-004	0.0730	0.0209	7.8000e-004	0.0216	0.0000	264.1281	264.1281	0.0175	0.0000	264.5645
Worker	0.0792	0.0454	0.5200	2.1500e-003	0.3115	1.3900e-003	0.3129	0.0828	1.2800e-003	0.0841	0.0000	194.5185	194.5185	3.8300e-003	0.0000	194.6142
Total	0.0995	0.7949	0.7525	4.8200e-003	0.3837	2.2100e-003	0.3860	0.1036	2.0600e-003	0.1057	0.0000	458.6466	458.6466	0.0213	0.0000	459.1787

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0924	0.5377	1.6650	3.1900e-003		0.0108	0.0108		0.0108	0.0108	0.0000	279.4056	279.4056	0.0107	0.0000	279.6733
Total	0.0924	0.5377	1.6650	3.1900e-003		0.0108	0.0108		0.0108	0.0108	0.0000	279.4056	279.4056	0.0107	0.0000	279.6733

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.7496	0.2325	2.6700e-003	0.0589	8.2000e-004	0.0597	0.0176	7.8000e-004	0.0184	0.0000	264.1281	264.1281	0.0175	0.0000	264.5645
Worker	0.0792	0.0454	0.5200	2.1500e-003	0.2414	1.3900e-003	0.2428	0.0656	1.2800e-003	0.0669	0.0000	194.5185	194.5185	3.8300e-003	0.0000	194.6142
Total	0.0995	0.7949	0.7525	4.8200e-003	0.3003	2.2100e-003	0.3025	0.0832	2.0600e-003	0.0852	0.0000	458.6466	458.6466	0.0213	0.0000	459.1787

3.12 Phase 4 Utilities - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0555	0.3839	0.6845	1.8100e-003		0.0155	0.0155		0.0143	0.0143	0.0000	158.9454	158.9454	0.0514	0.0000	160.2305

Total	0.0555	0.3839	0.6845	1.8100e-003		0.0155	0.0155		0.0143	0.0143	0.0000	158.9454	158.9454	0.0514	0.0000	160.2305
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.9600e-003	9.3000e-004	1.0000e-005	0.3147	0.0000	0.3147	0.0314	0.0000	0.0314	0.0000	0.8607	0.8607	9.0000e-005	0.0000	0.8630
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0121	6.9100e-003	0.0773	3.0000e-004	0.0416	2.1000e-004	0.0418	0.0111	2.0000e-004	0.0112	0.0000	27.2289	27.2289	5.7000e-004	0.0000	27.2432
Total	0.0122	0.0109	0.0783	3.1000e-004	0.3563	2.1000e-004	0.3565	0.0425	2.0000e-004	0.0427	0.0000	28.0896	28.0896	6.6000e-004	0.0000	28.1062

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0257	0.1275	0.9992	1.8100e-003		4.6700e-003	4.6700e-003		4.5100e-003	4.5100e-003	0.0000	158.9452	158.9452	0.0514	0.0000	160.2303
Total	0.0257	0.1275	0.9992	1.8100e-003		4.6700e-003	4.6700e-003		4.5100e-003	4.5100e-003	0.0000	158.9452	158.9452	0.0514	0.0000	160.2303

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	3.9600e-003	9.3000e-004	1.0000e-005	0.0675	0.0000	0.0675	6.7600e-003	0.0000	6.7600e-003	0.0000	0.8607	0.8607	9.0000e-005	0.0000	0.8630
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0121	6.9100e-003	0.0773	3.0000e-004	0.0322	2.1000e-004	0.0324	8.7500e-003	2.0000e-004	8.9500e-003	0.0000	27.2289	27.2289	5.7000e-004	0.0000	27.2432
Total	0.0122	0.0109	0.0783	3.1000e-004	0.0998	2.1000e-004	0.1000	0.0155	2.0000e-004	0.0157	0.0000	28.0896	28.0896	6.6000e-004	0.0000	28.1062

3.12 Phase 4 Utilities - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1795	0.4258	1.6727	4.9300e-003		0.0160	0.0160		0.0160	0.0160	0.0000	447.1596	447.1596	0.0144	0.0000	447.5196
Total	0.1795	0.4258	1.6727	4.9300e-003		0.0160	0.0160		0.0160	0.0160	0.0000	447.1596	447.1596	0.0144	0.0000	447.5196

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	9.1400e-003	2.1800e-003	2.0000e-005	0.3147	1.0000e-005	0.3147	0.0315	1.0000e-005	0.0315	0.0000	1.9976	1.9976	2.1000e-004	0.0000	2.0029

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0151	0.1709	6.8000e-004	0.0970	4.7000e-004	0.0975	0.0258	4.3000e-004	0.0262	0.0000	61.9499	61.9499	1.2600e-003	0.0000	61.9814
Total	0.0267	0.0242	0.1731	7.0000e-004	0.4117	4.8000e-004	0.4122	0.0572	4.4000e-004	0.0577	0.0000	63.9475	63.9475	1.4700e-003	0.0000	63.9843

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0625	0.2431	2.3464	4.9300e-003		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	447.1590	447.1590	0.0144	0.0000	447.5191
Total	0.0625	0.2431	2.3464	4.9300e-003		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003	0.0000	447.1590	447.1590	0.0144	0.0000	447.5191

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	9.1400e-003	2.1800e-003	2.0000e-005	0.0676	1.0000e-005	0.0676	6.7700e-003	1.0000e-005	6.7800e-003	0.0000	1.9976	1.9976	2.1000e-004	0.0000	2.0029
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0151	0.1709	6.8000e-004	0.0752	4.7000e-004	0.0756	0.0204	4.3000e-004	0.0208	0.0000	61.9499	61.9499	1.2600e-003	0.0000	61.9814
Total	0.0267	0.0242	0.1731	7.0000e-004	0.1427	4.8000e-004	0.1432	0.0272	4.4000e-004	0.0276	0.0000	63.9475	63.9475	1.4700e-003	0.0000	63.9843

3.13 Phase 4 Surface Improvements - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0798	0.2302	0.5799	1.8100e-003		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003	0.0000	177.0185	177.0185	6.4000e-003	0.0000	177.1783
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0798	0.2302	0.5799	1.8100e-003		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003	0.0000	177.0185	177.0185	6.4000e-003	0.0000	177.1783

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0365	0.0208	0.2353	9.4000e-004	0.1335	6.4000e-004	0.1342	0.0355	5.9000e-004	0.0361	0.0000	85.2732	85.2732	1.7400e-003	0.0000	85.3166
Total	0.0365	0.0208	0.2353	9.4000e-004	0.1335	6.4000e-004	0.1342	0.0355	5.9000e-004	0.0361	0.0000	85.2732	85.2732	1.7400e-003	0.0000	85.3166

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0213	0.1019	0.8822	1.8100e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	177.0182	177.0182	6.4000e-003	0.0000	177.1781

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0213	0.1019	0.8822	1.8100e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	177.0182	177.0182	6.4000e-003	0.0000	177.1781

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0365	0.0208	0.2353	9.4000e-004	0.1035	6.4000e-004	0.1041	0.0281	5.9000e-004	0.0287	0.0000	85.2732	85.2732	1.7400e-003	0.0000	85.3166
Total	0.0365	0.0208	0.2353	9.4000e-004	0.1035	6.4000e-004	0.1041	0.0281	5.9000e-004	0.0287	0.0000	85.2732	85.2732	1.7400e-003	0.0000	85.3166

3.13 Phase 4 Surface Improvements - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.0602	0.1515	4.7000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	46.2481	46.2481	1.6700e-003	0.0000	46.2898
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.0602	0.1515	4.7000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	46.2481	46.2481	1.6700e-003	0.0000	46.2898

Unmitigated Construction Off-Site

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8700e-003	5.0800e-003	0.0582	2.4000e-004	0.0270	1.6000e-004	0.0272	7.3400e-003	1.4000e-004	7.4900e-003	0.0000	21.7801	21.7801	4.3000e-004	0.0000	21.7908
Total	8.8700e-003	5.0800e-003	0.0582	2.4000e-004	0.0270	1.6000e-004	0.0272	7.3400e-003	1.4000e-004	7.4900e-003	0.0000	21.7801	21.7801	4.3000e-004	0.0000	21.7908

3.14 Phase 4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0263	0.1271	0.3113	6.3000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	55.4332	55.4332	2.1100e-003	0.0000	55.4860
Total	0.0263	0.1271	0.3113	6.3000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	55.4332	55.4332	2.1100e-003	0.0000	55.4860

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9800e-003	0.2206	0.0680	7.8000e-004	0.0211	2.4000e-004	0.0213	6.0800e-003	2.3000e-004	6.3100e-003	0.0000	77.2637	77.2637	5.1200e-003	0.0000	77.3917
Worker	0.0248	0.0141	0.1599	6.4000e-004	0.0907	4.4000e-004	0.0912	0.0241	4.0000e-004	0.0245	0.0000	57.9397	57.9397	1.1800e-003	0.0000	57.9692
Total	0.0308	0.2347	0.2279	1.4200e-003	0.1118	6.8000e-004	0.1125	0.0302	6.3000e-004	0.0308	0.0000	135.2034	135.2034	6.3000e-003	0.0000	135.3608

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0174	0.1004	0.3358	6.3000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	55.4332	55.4332	2.1100e-003	0.0000	55.4859
Total	0.0174	0.1004	0.3358	6.3000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	55.4332	55.4332	2.1100e-003	0.0000	55.4859

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9800e-003	0.2206	0.0680	7.8000e-004	0.0172	2.4000e-004	0.0174	5.1300e-003	2.3000e-004	5.3600e-003	0.0000	77.2637	77.2637	5.1200e-003	0.0000	77.3917
Worker	0.0248	0.0141	0.1599	6.4000e-004	0.0703	4.4000e-004	0.0707	0.0191	4.0000e-004	0.0195	0.0000	57.9397	57.9397	1.1800e-003	0.0000	57.9692
Total	0.0308	0.2347	0.2279	1.4200e-003	0.0875	6.8000e-004	0.0882	0.0242	6.3000e-004	0.0249	0.0000	135.2034	135.2034	6.3000e-003	0.0000	135.3608

3.14 Phase 4 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2544	1.2288	3.0088	6.1200e-003		0.0274	0.0274		0.0274	0.0274	0.0000	535.8545	535.8545	0.0204	0.0000	536.3645

Total	0.2544	1.2288	3.0088	6.1200e-003		0.0274	0.0274		0.0274	0.0274	0.0000	535.8545	535.8545	0.0204	0.0000	536.3645
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0572	2.1132	0.6554	7.5300e-003	0.2036	2.3000e-003	0.2059	0.0588	2.2000e-003	0.0610	0.0000	744.6357	744.6357	0.0492	0.0000	745.8661
Worker	0.2229	0.1277	1.4638	6.0500e-003	0.8770	3.9200e-003	0.8809	0.2330	3.6000e-003	0.2366	0.0000	547.5508	547.5508	0.0108	0.0000	547.8203
Total	0.2800	2.2409	2.1192	0.0136	1.0805	6.2200e-003	1.0867	0.2918	5.8000e-003	0.2976	0.0000	1,292.1865	1,292.1865	0.0600	0.0000	1,293.6863

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1680	0.9700	3.2457	6.1200e-003		0.0197	0.0197		0.0197	0.0197	0.0000	535.8539	535.8539	0.0204	0.0000	536.3639
Total	0.1680	0.9700	3.2457	6.1200e-003		0.0197	0.0197		0.0197	0.0197	0.0000	535.8539	535.8539	0.0204	0.0000	536.3639

Mitigated Construction Off-Site

Vendor	0.0569	2.1039	0.6569	7.5400e-003	0.2043	2.2800e-003	0.2066	0.0590	2.1800e-003	0.0612	0.0000	745.8101	745.8101	0.0492	0.0000	747.0400
Worker	0.2086	0.1210	1.3988	5.9500e-003	0.8803	3.6600e-003	0.8840	0.2339	3.3700e-003	0.2373	0.0000	538.7304	538.7304	0.0103	0.0000	538.9881
Total	0.2655	2.2248	2.0557	0.0135	1.0847	5.9400e-003	1.0906	0.2929	5.5500e-003	0.2985	0.0000	1,284.5404	1,284.5404	0.0595	0.0000	1,286.0281

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1686	0.9738	3.2582	6.1400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	537.9070	537.9070	0.0205	0.0000	538.4189
Total	0.1686	0.9738	3.2582	6.1400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	537.9070	537.9070	0.0205	0.0000	538.4189

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0569	2.1039	0.6569	7.5400e-003	0.1668	2.2800e-003	0.1690	0.0498	2.1800e-003	0.0520	0.0000	745.8101	745.8101	0.0492	0.0000	747.0400
Worker	0.2086	0.1210	1.3988	5.9500e-003	0.6821	3.6600e-003	0.6858	0.1853	3.3700e-003	0.1887	0.0000	538.7304	538.7304	0.0103	0.0000	538.9881
Total	0.2655	2.2248	2.0557	0.0135	0.8489	5.9400e-003	0.8548	0.2351	5.5500e-003	0.2406	0.0000	1,284.5404	1,284.5404	0.0595	0.0000	1,286.0281

3.14 Phase 4 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1267	0.6121	1.4987	3.0500e-003		0.0136	0.0136		0.0136	0.0136	0.0000	266.9007	266.9007	0.0102	0.0000	267.1547
Total	0.1267	0.6121	1.4987	3.0500e-003		0.0136	0.0136		0.0136	0.0136	0.0000	266.9007	266.9007	0.0102	0.0000	267.1547

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0280	1.0361	0.3257	3.7300e-003	0.1014	1.1200e-003	0.1025	0.0293	1.0700e-003	0.0303	0.0000	369.3842	369.3842	0.0243	0.0000	369.9924
Worker	0.0970	0.0570	0.6638	2.9000e-003	0.4368	1.7000e-003	0.4385	0.1161	1.5600e-003	0.1176	0.0000	262.6439	262.6439	4.9000e-003	0.0000	262.7664
Total	0.1250	1.0931	0.9895	6.6300e-003	0.5382	2.8200e-003	0.5410	0.1453	2.6300e-003	0.1480	0.0000	632.0282	632.0282	0.0292	0.0000	632.7588

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0837	0.4832	1.6167	3.0500e-003		9.8100e-003	9.8100e-003		9.8100e-003	9.8100e-003	0.0000	266.9004	266.9004	0.0102	0.0000	267.1544

Retirement Community	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	0.000000	0.000000	0.000000	0.000000
Single Family Housing	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	0.000000	0.000000	0.000000	0.000000
User Defined Industrial	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	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,108.6032	6,108.6032	0.2459	0.0509	6,129.9094
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,108.6032	6,108.6032	0.2459	0.0509	6,129.9094
NaturalGas Mitigated	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110
NaturalGas Unmitigated	0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	8.94672e+006	0.0482	0.4123	0.1754	2.6300e-003		0.0333	0.0333		0.0333	0.0333	0.0000	477.4308	477.4308	9.1500e-003	8.7500e-003	480.2679

City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004	1.8400e-003	1.8400e-003	1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684		
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005	5.0000e-004	5.0000e-004	5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825		
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003	0.0186	0.0186	0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546		
Single Family Housing	2.97482e+007	0.1604	1.3708	0.5833	8.7500e-003	0.1108	0.1108	0.1108	0.1108	0.0000	1,587.4752	1,587.4752	0.0304	0.0291	1,596.9088		
User Defined Industrial	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	0.0000	0.0000
Total		0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	4.88309e+006	0.0263	0.2250	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.5802	260.5802	4.9900e-003	4.7800e-003	262.1287
Apartments Low Rise	8.94672e+006	0.0482	0.4123	0.1754	2.6300e-003		0.0333	0.0333		0.0333	0.0333	0.0000	477.4308	477.4308	9.1500e-003	8.7500e-003	480.2679
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	494932	2.6700e-003	0.0243	0.0204	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.4115	26.4115	5.1000e-004	4.8000e-004	26.5684
Regional Shopping Center	133800	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1401	7.1401	1.4000e-004	1.3000e-004	7.1825
Retirement Community	4.99534e+006	0.0269	0.2302	0.0980	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.5705	266.5705	5.1100e-003	4.8900e-003	268.1546
Single Family Housing	2.97482e+007	0.1604	1.3708	0.5833	8.7500e-003		0.1108	0.1108		0.1108	0.1108	0.0000	1,587.4752	1,587.4752	0.0304	0.0291	1,596.9088
User Defined Industrial	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		0.2653	2.2690	0.9783	0.0145		0.1833	0.1833		0.1833	0.1833	0.0000	2,625.6083	2,625.6083	0.0503	0.0481	2,641.2110

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.84613e+006	603.3319	0.0243	5.0200e-003	605.4363
Apartments Low Rise	3.38245e+006	1,105.4150	0.0445	9.2100e-003	1,109.2706
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	143.1689	5.7600e-003	1.1900e-003	143.6683
Regional Shopping Center	753600	246.2831	9.9100e-003	2.0500e-003	247.1421
Retirement Community	1.97345e+006	644.9409	0.0260	5.3700e-003	647.1904
Single Family Housing	1.0298e+007	3,365.4634	0.1355	0.0280	3,377.2018
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		6,108.6032	0.2459	0.0509	6,129.9094

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.84613e+006	603.3319	0.0243	5.0200e-003	605.4363
Apartments Low Rise	3.38245e+006	1,105.4150	0.0445	9.2100e-003	1,109.2706
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	438082	143.1689	5.7600e-003	1.1900e-003	143.6683
Regional Shopping Center	753600	246.2831	9.9100e-003	2.0500e-003	247.1421

Hearth	262.3418	5.1232	323.8325	0.5867		45.4044	45.4044		45.4044	45.4044	4,318.796 2	1,811.240 1	6,130.036 3	3.9855	0.3397	6,330.906 9
Landscaping	0.6534	0.2518	21.8301	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.7881	35.7881	0.0341	0.0000	36.6406
Total	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.796 2	1,847.028 2	6,165.824 4	4.0196	0.3397	6,367.547 5

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	16.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	262.3418	5.1232	323.8325	0.5867		45.4044	45.4044		45.4044	45.4044	4,318.796 2	1,811.240 1	6,130.036 3	3.9855	0.3397	6,330.906 9	
Landscaping	0.6534	0.2518	21.8301	1.1600e-003		0.1215	0.1215		0.1215	0.1215	0.0000	35.7881	35.7881	0.0341	0.0000	36.6406	
Total	279.1163	5.3751	345.6626	0.5879		45.5259	45.5259		45.5259	45.5259	4,318.796 2	1,847.028 2	6,165.824 4	4.0196	0.3397	6,367.547 5	

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,696.8285	6.5504	0.1667	1,910.2724
Unmitigated	1,696.8285	6.5504	0.1667	1,910.2724

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	80.2698 / 50.6048	550.7824	2.6367	0.0661	636.4088
City Park	0 / 86.6207	314.5064	0.0127	2.6200e-003	315.6033
Elementary School	2.42424 / 6.23376	33.7190	0.0803	2.1400e-003	36.3646
Regional Shopping Center	4.44435 / 2.72396	30.2127	0.1460	3.6600e-003	34.9526
Retirement Community	28.9935 / 18.2785	198.9433	0.9524	0.0239	229.8717
Single Family Housing	82.8759 / 52.2479	568.6649	2.7223	0.0683	657.0714
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,696.8285	6.5504	0.1667	1,910.2724

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	80.2698 / 50.6048	550.7824	2.6367	0.0661	636.4088
City Park	0 / 86.6207	314.5064	0.0127	2.6200e-003	315.6033
Elementary School	2.42424 / 6.23376	33.7190	0.0803	2.1400e-003	36.3646

Regional Shopping Center	4.44435 / 2.72396	30.2127	0.1460	3.6600e-003	34.9526
Retirement Community	28.9935 / 18.2785	198.9433	0.9524	0.0239	229.8717
Single Family Housing	82.8759 / 52.2479	568.6649	2.7223	0.0683	657.0714
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1,696.8285	6.5504	0.1667	1,910.2724

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	510.4715	30.1680	0.0000	1,264.6716
Unmitigated	510.4715	30.1680	0.0000	1,264.6716

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Apartments Low Rise	566.72	115.0390	6.7986	0.0000	285.0044

City Park	6.25	1.2687	0.0750	0.0000	3.1431
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1491.58	302.7773	17.8936	0.0000	750.1179
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		510.4715	30.1680	0.0000	1,264.6716

Mitigated

Land Use	Waste Disposed tons	Total CO2 MT/yr	CH4	N2O	CO2e
Apartments Low Rise	566.72	115.0390	6.7986	0.0000	285.0044
City Park	6.25	1.2687	0.0750	0.0000	3.1431
Elementary School	182.5	37.0459	2.1894	0.0000	91.7795
Regional Shopping Center	63	12.7884	0.7558	0.0000	31.6828
Retirement Community	204.7	41.5523	2.4557	0.0000	102.9439
Single Family Housing	1491.58	302.7773	17.8936	0.0000	750.1179
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		510.4715	30.1680	0.0000	1,264.6716

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Fanita Ranch Construction - San Diego County APCD Air District, Summer

**Fanita Ranch Construction Phase 3-4
San Diego County APCD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	19.20	83,603.37	0
User Defined Industrial	1.00	User Defined Unit	69.60	0.00	0
City Park	31.40	Acre	31.40	1,367,784.00	0
City Park	28.90	Acre	28.90	1,258,884.00	0
City Park	12.40	Acre	12.40	540,144.00	0
Apartments Low Rise	797.00	Dwelling Unit	63.90	797,000.00	2279
Apartments Low Rise	435.00	Dwelling Unit	27.19	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,272.00	Dwelling Unit	248.00	2,289,600.00	3638
Regional Shopping Center	60.00	1000sqft	9.31	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Construction Phase - Construction phasing provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

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Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Off-road Equipment - construction equipment list provided by developer

Trips and VMT - assume 1 hauling trip per day, 10 miles per trip (cut and fill balanced onsite)

On-road Fugitive Dust - assume 50% onsite roadways for hauling trips are paved

Grading - grading acreage provided by developer

Construction Off-road Equipment Mitigation - clean engine and dust control

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	250	0
tblAreaCoating	Area_Nonresidential_Exterior	76802	0
tblAreaCoating	Area_Nonresidential_Interior	230405	0
tblAreaCoating	Area_Residential_Exterior	2677455	0
tblAreaCoating	Area_Residential_Interior	8032365	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	66.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	159.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	23.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	930.00	480.00
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tblConstructionPhase	NumDays	660.00	280.00

tblConstructionPhase	NumDays	660.00	280.00
tblConstructionPhase	NumDays	360.00	40.00
tblConstructionPhase	NumDays	360.00	40.00
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tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
tblFleetMix	HHD	0.03	0.00
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tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
tblFleetMix	LDA	0.62	0.00
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tblFleetMix	LHD1	0.01	0.00
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tblFleetMix	LHD2	5.2820e-003	0.00
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tblFleetMix	MDV	0.10	0.00
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tblTripsAndVMT	HaulingTripLength	20.00	3.00
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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					
2023	6.2664	44.4506	55.2987	0.2054	11.1401	0.9774	12.1176	3.0027	0.9150	3.9176	0.0000	20,978.81 15	20,978.81 15	1.8365	0.0000	21,024.72 34
2024	5.9482	42.5949	53.3801	0.2015	11.1401	0.8677	12.0078	3.0027	0.8119	3.8146	0.0000	20,596.28 53	20,596.28 53	1.8091	0.0000	20,641.51 32
2025	5.6511	40.6658	51.5881	0.1976	11.1401	0.7638	11.9039	3.0027	0.7146	3.7172	0.0000	20,220.38 64	20,220.38 64	1.7848	0.0000	20,265.00 52
2026	16.0462	128.3904	135.0449	0.4712	258.9902	3.6571	262.6473	31.0709	3.3879	34.4587	0.0000	47,397.23 65	47,397.23 65	7.4615	0.0000	47,583.77 46
2027	15.7986	127.6847	132.9143	0.4661	179.8264	3.6509	182.9129	22.2547	3.3821	25.6368	0.0000	46,892.74 00	46,892.74 00	7.4343	0.0000	47,078.59 83
2028	13.6607	112.1550	115.5367	0.3772	699.2846	3.5621	702.3681	73.0883	3.2999	75.9365	0.0000	37,630.27 70	37,630.27 70	6.9979	0.0000	37,802.86 22
2029	13.4712	111.7637	114.3307	0.3744	85.5450	3.5573	88.5745	12.6517	3.2954	15.9471	0.0000	37,359.27 72	37,359.27 72	6.8897	0.0000	37,531.51 91
2030	12.8028	54.7658	87.2678	0.3179	161.8940	1.4814	163.3754	19.5202	1.4782	20.9985	0.0000	33,792.77 50	33,792.77 50	1.3411	0.0000	33,826.30 26
2031	8.2092	48.3279	78.6813	0.2893	15.0149	0.5646	15.5795	4.0411	0.5590	4.6002	0.0000	29,585.89 49	29,585.89 49	1.2324	0.0000	29,616.70 42
2032	3.9445	26.2276	39.3242	0.1530	8.4748	0.2550	8.7298	2.2839	0.2519	2.5358	0.0000	15,649.61 60	15,649.61 60	0.6706	0.0000	15,666.37 99
2033	3.8418	26.0671	38.8330	0.1520	8.4748	0.2529	8.7277	2.2839	0.2500	2.5339	0.0000	15,554.89 75	15,554.89 75	0.6654	0.0000	15,571.53 27
Maximum	16.0462	128.3904	135.0449	0.4712	699.2846	3.6571	702.3681	73.0883	3.3879	75.9365	0.0000	47,397.23 65	47,397.23 65	7.4615	0.0000	47,583.77 46

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					
2023	5.6602	38.8439	57.3262	0.2054	8.7087	0.7082	9.4168	2.4058	0.6697	3.0755	0.0000	20,978.81 15	20,978.81 15	1.8365	0.0000	21,024.72 34
2024	5.3751	37.5296	55.3863	0.2015	8.7087	0.6335	9.3421	2.4058	0.5989	3.0047	0.0000	20,596.28 53	20,596.28 53	1.8091	0.0000	20,641.51 32

2025	5.1205	36.2352	53.6284	0.1976	8.7086	0.5639	9.2725	2.4058	0.5331	2.9389	0.0000	20,220.3864	20,220.3864	1.7848	0.0000	20,265.0052
2026	10.5796	70.8399	156.4091	0.4712	66.4476	1.3190	67.7666	9.7331	1.2590	10.9921	0.0000	47,397.2365	47,397.2365	7.4615	0.0000	47,583.7746
2027	10.3321	70.1341	154.2785	0.4661	47.5069	1.3128	48.8197	7.8414	1.2532	9.0946	0.0000	46,892.7400	46,892.7400	7.4343	0.0000	47,078.5983
2028	8.2926	55.2937	136.6624	0.3772	154.3895	1.2604	155.2245	16.9351	1.2041	17.7376	0.0000	37,630.2770	37,630.2770	6.9979	0.0000	37,802.8622
2029	8.1031	54.9023	135.4563	0.3744	25.6912	1.2556	26.9468	4.8545	1.1995	6.0541	0.0000	37,359.2771	37,359.2771	6.8897	0.0000	37,531.5191
2030	6.7074	43.7480	121.9586	0.3179	39.4234	0.4842	39.9076	5.5241	0.4810	6.0051	0.0000	33,792.7750	33,792.7750	1.3411	0.0000	33,826.3026
2031	6.4664	43.3999	84.8591	0.2893	11.7271	0.4046	12.1316	3.2342	0.3990	3.6331	0.0000	29,585.8949	29,585.8949	1.2324	0.0000	29,616.7042
2032	3.2827	24.2446	41.1394	0.1530	6.6244	0.1962	6.8206	1.8297	0.1932	2.0229	0.0000	15,649.6160	15,649.6160	0.6706	0.0000	15,666.3799
2033	3.1800	24.0842	40.6482	0.1520	6.6244	0.1941	6.8185	1.8297	0.1912	2.0210	0.0000	15,554.8975	15,554.8975	0.6654	0.0000	15,571.5327
Maximum	10.5796	70.8399	156.4091	0.4712	154.3895	1.3190	155.2245	16.9351	1.2590	17.7376	0.0000	47,397.2365	47,397.2365	7.4615	0.0000	47,583.7746

	ROG	NOx	CO	SO2	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	30.80	34.57	-15.02	0.00	73.50	57.47	73.28	66.52	56.49	65.70	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	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Energy	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
Mobile	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Total	6,495.6295	140.1879	8,146.2704	14.4017	137.7703	1,109.7785	1,247.5488	33.8163	1,109.7785	1,143.5948	116,113.6062	64,993.5185	181,107.1247	107.8752	9.4240	186,612.3443

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Energy	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
Mobile	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Total	6,495.6295	140.1879	8,146.2704	14.4017	137.7703	1,109.7785	1,247.5488	33.8163	1,109.7785	1,143.5948	116,113.6062	64,993.5185	181,107.1247	107.8752	9.4240	186,612.3443

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Building Construction	Building Construction	9/18/2023	3/26/2027	5	920	
2	Phase 2 Surface Improvements	Paving	2/23/2026	3/19/2027	5	280	
3	Phase 3 Site Preparation	Site Preparation	3/24/2026	5/18/2026	5	40	
4	Phase 3 Grading	Grading	5/19/2026	3/20/2028	5	480	
5	Phase 2 Building Construction	Building Construction	9/28/2026	6/28/2029	5	720	
6	Phase 3 Utilities	Trenching	11/22/2027	12/14/2028	5	280	
7	Phase 3 Surface Improvements	Paving	5/22/2028	6/14/2029	5	280	
8	Phase 4 Site Preparation	Site Preparation	6/20/2028	8/11/2028	5	40	
9	Phase 4 Grading	Grading	8/14/2028	6/14/2030	5	480	
10	Phase 3 Building Construction	Building Construction	12/18/2028	7/25/2031	5	680	

11	Phase 4 Utilities	Trenching	8/20/2029	11/8/2030	5	320
12	Phase 4 Surface Improvements	Paving	2/25/2030	3/21/2031	5	280
13	Phase 4 Building Construction	Building Construction	11/25/2030	7/1/2033	5	680

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 1 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 1 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 2 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Graders	1	0.60	150	0.41
Phase 2 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 2 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 2 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 2 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 2 Surface Improvements	Rollers	1	0.60	36	0.38

Phase 2 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 2 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 2 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 2 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 3 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 3 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 3 Grading	Excavators	1	1.10	760	0.38
Phase 3 Grading	Graders	1	2.60	275	0.41
Phase 3 Grading	Graders	1	1.10	275	0.41
Phase 3 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 3 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 3 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 3 Grading	Plate Compactors	1	2.60	554	0.43
Phase 3 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 3 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 3 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 3 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 3 Grading	Scrapers	10	2.60	600	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 2 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 2 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 2 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 3 Utilities	Excavators	1	1.80	417	0.38
Phase 3 Utilities	Excavators	1	0.90	235	0.38
Phase 3 Utilities	Excavators	1	1.70	235	0.38
Phase 3 Utilities	Excavators	1	2.00	235	0.38
Phase 3 Utilities	Excavators	1	1.30	417	0.38
Phase 3 Utilities	Excavators	1	0.60	235	0.38
Phase 3 Utilities	Excavators	1	5.50	235	0.38

Phase 3 Utilities	Excavators	1	0.50	417	0.38
Phase 3 Utilities	Excavators	1	0.30	235	0.38
Phase 3 Utilities	Excavators	1	0.30	235	0.38
Phase 3 Utilities	Excavators	1	3.60	140	0.38
Phase 3 Utilities	Excavators	1	2.10	85	0.38
Phase 3 Utilities	Excavators	1	1.60	417	0.38
Phase 3 Utilities	Excavators	1	0.80	235	0.38
Phase 3 Utilities	Excavators	1	2.40	235	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.80	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	1.90	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.00	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.40	450	0.38
Phase 3 Utilities	Off-Highway Trucks	1	0.80	170	0.38
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.40	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.90	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.00	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	2.70	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.40	170	0.37

Phase 3 Utilities	Tractors/Loaders/Backhoes	1	0.10	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	3.00	164	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 3 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 3 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 3 Surface Improvements	Graders	1	0.60	150	0.41
Phase 3 Surface Improvements	Graders	1	0.60	150	0.41
Phase 3 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 3 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38
Phase 3 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 3 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 3 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 3 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 3 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 3 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 3 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 3 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 4 Site Preparation	Rubber Tired Dozers	1	4.20	436	0.40
Phase 4 Site Preparation	Rubber Tired Loaders	1	4.20	249	0.36
Phase 4 Grading	Excavators	1	1.10	760	0.38
Phase 4 Grading	Graders	1	2.60	275	0.41
Phase 4 Grading	Graders	1	1.10	275	0.41
Phase 4 Grading	Off-Highway Trucks	3	2.60	300	0.38
Phase 4 Grading	Off-Highway Trucks	3	8.00	1025	0.38
Phase 4 Grading	Off-Highway Trucks	2	1.10	300	0.38
Phase 4 Grading	Plate Compactors	1	2.60	554	0.43

Phase 4 Grading	Rubber Tired Dozers	1	2.60	600	0.40
Phase 4 Grading	Rubber Tired Dozers	1	2.60	354	0.40
Phase 4 Grading	Rubber Tired Dozers	1	2.60	436	0.40
Phase 4 Grading	Rubber Tired Dozers	1	1.10	600	0.40
Phase 4 Grading	Rubber Tired Dozers	2	1.10	436	0.40
Phase 4 Grading	Scrapers	10	2.60	600	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	1	0.70	249	0.37
Phase 3 Building Construction	Cement and Mortar Mixers	1	2.00	505	0.56
Phase 3 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 3 Building Construction	Off-Highway Trucks	1	0.80	170	0.38
Phase 3 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 3 Building Construction	Off-Highway Trucks	1	3.00	170	0.38
Phase 4 Utilities	Excavators	1	1.60	417	0.38
Phase 4 Utilities	Excavators	1	0.80	235	0.38
Phase 4 Utilities	Excavators	1	1.50	235	0.38
Phase 4 Utilities	Excavators	1	1.80	235	0.38
Phase 4 Utilities	Excavators	1	1.10	417	0.38
Phase 4 Utilities	Excavators	1	0.60	235	0.38
Phase 4 Utilities	Excavators	1	4.80	235	0.38
Phase 4 Utilities	Excavators	1	0.50	417	0.38
Phase 4 Utilities	Excavators	1	0.20	235	0.38
Phase 4 Utilities	Excavators	1	0.20	235	0.38
Phase 4 Utilities	Excavators	1	3.10	140	0.38
Phase 4 Utilities	Excavators	1	1.90	85	0.38
Phase 4 Utilities	Excavators	1	1.40	417	0.38
Phase 4 Utilities	Excavators	1	0.70	235	0.38
Phase 4 Utilities	Excavators	1	2.10	235	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.30	450	0.38

Phase 4 Utilities	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.40	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.70	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	1.70	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.10	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.00	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.10	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.50	170	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.30	450	0.38
Phase 4 Utilities	Off-Highway Trucks	1	0.70	170	0.38
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.20	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.70	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.90	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.80	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	2.40	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.30	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	0.10	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	2.70	164	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 4 Utilities	Tractors/Loaders/Backhoes	1	1.10	170	0.37
Phase 4 Surface Improvements	Dumpers/Tenders	22	0.60	515	0.38
Phase 4 Surface Improvements	Graders	1	0.60	150	0.41
Phase 4 Surface Improvements	Graders	1	0.60	150	0.41
Phase 4 Surface Improvements	Off-Highway Trucks	4	0.90	300	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.10	450	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.60	170	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	1	0.20	450	0.38
Phase 4 Surface Improvements	Off-Highway Trucks	17	0.20	450	0.38

Phase 4 Surface Improvements	Pavers	1	0.20	225	0.42
Phase 4 Surface Improvements	Paving Equipment	1	0.90	140	0.36
Phase 4 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	102	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 4 Surface Improvements	Rollers	1	0.60	36	0.38
Phase 4 Surface Improvements	Rollers	1	0.20	120	0.38
Phase 4 Surface Improvements	Rollers	2	0.20	78	0.38
Phase 4 Surface Improvements	Scrapers	1	0.60	150	0.48
Phase 4 Surface Improvements	Tractors/Loaders/Backhoes	1	0.60	78	0.37
Phase 4 Building Construction	Cement and Mortar Mixers	1	3.00	505	0.56
Phase 4 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 4 Building Construction	Off-Highway Trucks	1	1.30	170	0.38
Phase 4 Building Construction	Off-Highway Trucks	5	1.00	300	0.38
Phase 4 Building Construction	Off-Highway Trucks	1	5.00	170	0.38
Phase 1 Building Construction	Cranes	1	7.00	231	0.29
Phase 3 Building Construction	Cranes	1	7.00	231	0.29
Phase 4 Building Construction	Cranes	1	7.00	231	0.29
Phase 2 Building Construction	Cranes	1	7.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Phase 4 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Building Construction	18	1,099.00	312.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	29	73.00	0.00	17,355.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	18	588.00	165.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Utilities	43	108.00	0.00	280.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Site Preparation	6	5.00	0.00	40.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	29	73.00	0.00	7,856.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	18	525.00	147.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Utilities	43	108.00	0.00	320.00	10.80	7.30	3.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Surface Improvements	60	150.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	18	838.00	235.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1872	18.7572	23.0956	0.0409		0.8898	0.8898		0.8333	0.8333		3,909.0276	3,909.0276	1.0457		3,935.1701
Total	2.1872	18.7572	23.0956	0.0409		0.8898	0.8898		0.8333	0.8333		3,909.0276	3,909.0276	1.0457		3,935.1701

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6765	23.6368	7.0241	0.0813	2.1121	0.0279	2.1400	0.6080	0.0266	0.6346		8,777.0915	8,777.0915	0.5764		8,791.5021
Worker	3.4027	2.0567	25.1790	0.0832	9.0280	0.0598	9.0878	2.3947	0.0551	2.4497		8,292.6924	8,292.6924	0.2144		8,298.0513
Total	4.0792	25.6934	32.2032	0.1645	11.1401	0.0877	11.2278	3.0027	0.0817	3.0844		17,069.7839	17,069.7839	0.7908		17,089.5534

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	1.5810	13.1505	25.1230	0.0409		0.6205	0.6205		0.5880	0.5880	0.0000	3,909.0276	3,909.0276	1.0457		3,935.1701
Total	1.5810	13.1505	25.1230	0.0409		0.6205	0.6205		0.5880	0.5880	0.0000	3,909.0276	3,909.0276	1.0457		3,935.1701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6765	23.6368	7.0241	0.0813	1.7206	0.0279	1.7485	0.5119	0.0266	0.5385		8,777.0915	8,777.0915	0.5764		8,791.5021
Worker	3.4027	2.0567	25.1790	0.0832	6.9880	0.0598	7.0478	1.8939	0.0551	1.9490		8,292.6924	8,292.6924	0.2144		8,298.0513
Total	4.0792	25.6934	32.2032	0.1645	8.7087	0.0877	8.7963	2.4058	0.0817	2.4875		17,069.7839	17,069.7839	0.7908		17,089.5534

3.2 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0637	17.4009	23.0335	0.0409		0.7818	0.7818		0.7319	0.7319		3,909.6871	3,909.6871	1.0423		3,935.7436
Total	2.0637	17.4009	23.0335	0.0409		0.7818	0.7818		0.7319	0.7319		3,909.6871	3,909.6871	1.0423		3,935.7436

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6526	23.3073	6.8051	0.0806	2.1121	0.0272	2.1393	0.6080	0.0260	0.6340		8,720.6384	8,720.6384	0.5698		8,734.8832
Worker	3.2320	1.8867	23.5416	0.0799	9.0280	0.0587	9.0867	2.3947	0.0541	2.4487		7,965.9598	7,965.9598	0.1971		7,970.8864
Total	3.8846	25.1940	30.3466	0.1605	11.1401	0.0859	11.2260	3.0027	0.0800	3.0827		16,686.5982	16,686.5982	0.7669		16,705.7696

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4906	12.3356	25.0397	0.0409		0.5476	0.5476		0.5189	0.5189	0.0000	3,909.6871	3,909.6871	1.0423		3,935.7436
Total	1.4906	12.3356	25.0397	0.0409		0.5476	0.5476		0.5189	0.5189	0.0000	3,909.6871	3,909.6871	1.0423		3,935.7436

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.6526	23.3073	6.8051	0.0806	1.7206	0.0272	1.7478	0.5119	0.0260	0.5379		8,720.638 4	8,720.638 4	0.5698	8,734.883 2
Worker	3.2320	1.8867	23.5416	0.0799	6.9880	0.0587	7.0467	1.8939	0.0541	1.9480		7,965.959 8	7,965.959 8	0.1971	7,970.886 4
Total	3.8846	25.1940	30.3466	0.1605	8.7087	0.0859	8.7945	2.4058	0.0800	2.4859		16,686.59 82	16,686.59 82	0.7669	16,705.76 96

3.2 Phase 1 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.728 8	3,909.728 8	1.0386		3,935.694 3
Total	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.728 8	3,909.728 8	1.0386		3,935.694 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	0.6335	22.9705	6.6722	0.0800	2.1121	0.0264	2.1385	0.6080	0.0253	0.6333		8,666.984 8	8,666.984 8	0.5642		8,681.088 5
Worker	3.0836	1.7398	21.9902	0.0767	9.0280	0.0578	9.0858	2.3947	0.0532	2.4479		7,643.672 7	7,643.672 7	0.1820		7,648.222 4

Total	3.7171	24.7103	28.6624	0.1567	11.1401	0.0842	11.2243	3.0027	0.0784	3.0811		16,310.65	16,310.65	0.7461		16,329.31
												76	76			09

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943
Total	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6335	22.9705	6.6722	0.0800	1.7206	0.0264	1.7471	0.5119	0.0253	0.5372		8,666.9848	8,666.9848	0.5642		8,681.0885
Worker	3.0836	1.7398	21.9902	0.0767	6.9880	0.0578	7.0458	1.8939	0.0532	1.9471		7,643.6727	7,643.6727	0.1820		7,648.2224
Total	3.7171	24.7103	28.6624	0.1567	8.7086	0.0842	8.7929	2.4058	0.0784	2.4843		16,310.6576	16,310.6576	0.7461		16,329.3109

3.2 Phase 1 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943
Total	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.7288	3,909.7288	1.0386		3,935.6943

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6174	22.6445	6.5805	0.0795	2.1121	0.0257	2.1378	0.6080	0.0246	0.6326		8,616.7732	8,616.7732	0.5587		8,630.7416
Worker	2.9532	1.6183	20.6815	0.0738	9.0280	0.0560	9.0840	2.3947	0.0515	2.4462		7,363.6770	7,363.6770	0.1697		7,367.9183
Total	3.5706	24.2628	27.2620	0.1533	11.1401	0.0817	11.2218	3.0027	0.0761	3.0788		15,980.4502	15,980.4502	0.7284		15,998.6599

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943
Total	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.7288	3,909.7288	1.0386		3,935.6943

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6174	22.6445	6.5805	0.0795	1.7206	0.0257	1.7463	0.5119	0.0246	0.5365		8,616.773 2	8,616.773 2	0.5587		8,630.741 6
Worker	2.9532	1.6183	20.6815	0.0738	6.9880	0.0560	7.0440	1.8939	0.0515	1.9455		7,363.677 0	7,363.677 0	0.1697		7,367.918 3
Total	3.5706	24.2628	27.2620	0.1533	8.7086	0.0817	8.7903	2.4058	0.0761	2.4819		15,980.45 02	15,980.45 02	0.7284		15,998.65 99

3.2 Phase 1 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.728 8	3,909.728 8	1.0386		3,935.694 3
Total	1.9340	15.9556	22.9257	0.0409		0.6796	0.6796		0.6361	0.6361		3,909.728 8	3,909.728 8	1.0386		3,935.694 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	0.6038	22.3325	6.5024	0.0789	2.1121	0.0251	2.1372	0.6080	0.0240	0.6320		8,570.841 2	8,570.841 2	0.5541		8,584.692 9
Worker	2.8232	1.5108	19.5218	0.0714	9.0280	0.0530	9.0810	2.3947	0.0488	2.4434		7,117.131 4	7,117.131 4	0.1589		7,121.104 3
Total	3.4270	23.8433	26.0242	0.1503	11.1401	0.0781	11.2182	3.0027	0.0728	3.0754		15,687.97 26	15,687.97 26	0.7130		15,705.79 72

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.728 8	3,909.728 8	1.0386		3,935.694 3
Total	1.4034	11.5249	24.9661	0.0409		0.4797	0.4797		0.4546	0.4546	0.0000	3,909.728 8	3,909.728 8	1.0386		3,935.694 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	0.6038	22.3325	6.5024	0.0789	1.7206	0.0251	1.7457	0.5119	0.0240	0.5359		8,570.841 2	8,570.841 2	0.5541		8,584.692 9

Worker	2.8232	1.5108	19.5218	0.0714	6.9880	0.0530	7.0410	1.8939	0.0488	1.9427		7,117.131	7,117.131	0.1589		7,121.104
												4	4			3
Total	3.4270	23.8433	26.0242	0.1503	8.7086	0.0781	8.7867	2.4058	0.0728	2.4786		15,687.97	15,687.97	0.7130		15,705.79
												26	26			72

3.3 Phase 2 Surface Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.592	1,470.592	0.4756		1,482.482
												3	3			7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.592	1,470.592	0.4756		1,482.482
												3	3			7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4031	0.2209	2.8228	0.0101	1.2322	7.6400e-003	1.2399	0.3268	7.0300e-003	0.3339		1,005.051	1,005.051	0.0232		1,005.630
												5	5			4
Total	0.4031	0.2209	2.8228	0.0101	1.2322	7.6400e-003	1.2399	0.3268	7.0300e-003	0.3339		1,005.051	1,005.051	0.0232		1,005.630
												5	5			4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.592 2	1,470.592 2	0.4756		1,482.482 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.592 2	1,470.592 2	0.4756		1,482.482 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4031	0.2209	2.8228	0.0101	0.9538	7.6400e-003	0.9614	0.2585	7.0300e-003	0.2655		1,005.051 5	1,005.051 5	0.0232		1,005.630 4
Total	0.4031	0.2209	2.8228	0.0101	0.9538	7.6400e-003	0.9614	0.2585	7.0300e-003	0.2655		1,005.051 5	1,005.051 5	0.0232		1,005.630 4

3.3 Phase 2 Surface Improvements - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.592 3	1,470.592 3	0.4756		1,482.482 7

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3853	0.2062	2.6645	9.7400e-003	1.2322	7.2300e-003	1.2395	0.3268	6.6500e-003	0.3335		971.4010	971.4010	0.0217		971.9433
Total	0.3853	0.2062	2.6645	9.7400e-003	1.2322	7.2300e-003	1.2395	0.3268	6.6500e-003	0.3335		971.4010	971.4010	0.0217		971.9433

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3853	0.2062	2.6645	9.7400e-003	0.9538	7.2300e-003	0.9610	0.2585	6.6500e-003	0.2652		971.4010	971.4010	0.0217		971.9433
Total	0.3853	0.2062	2.6645	9.7400e-003	0.9538	7.2300e-003	0.9610	0.2585	6.6500e-003	0.2652		971.4010	971.4010	0.0217		971.9433

3.4 Phase 3 Site Preparation - 2026
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6895	0.0000	8.6895	2.3348	0.0000	2.3348			0.0000			0.0000
Off-Road	1.2681	11.9786	14.6445	0.0245		0.4998	0.4998		0.4598	0.4598		2,371.8801	2,371.8801	0.7671		2,391.0580
Total	1.2681	11.9786	14.6445	0.0245	8.6895	0.4998	9.1893	2.3348	0.4598	2.7946		2,371.8801	2,371.8801	0.7671		2,391.0580

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	2.2092	6.0000e-005	2.2092	0.2208	5.0000e-005	0.2208		20.7608	20.7608	2.1400e-003		20.8143

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0134	7.3600e-003	0.0941	3.4000e-004	0.0411	2.5000e-004	0.0413	0.0109	2.3000e-004	0.0111		33.5017	33.5017	7.7000e-004		33.5210
Total	0.0150	0.0935	0.1115	5.3000e-004	2.2502	3.1000e-004	2.2506	0.2317	2.8000e-004	0.2320		54.2625	54.2625	2.9100e-003		54.3353

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1350	0.0000	2.1350	0.5737	0.0000	0.5737			0.0000			0.0000
Off-Road	0.4681	3.4009	14.5446	0.0245		0.1281	0.1281		0.1203	0.1203	0.0000	2,371.8801	2,371.8801	0.7671		2,391.0580
Total	0.4681	3.4009	14.5446	0.0245	2.1350	0.1281	2.2631	0.5737	0.1203	0.6939	0.0000	2,371.8801	2,371.8801	0.7671		2,391.0580

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5700e-003	0.0861	0.0175	1.9000e-004	0.4744	6.0000e-005	0.4745	0.0476	5.0000e-005	0.0476		20.7608	20.7608	2.1400e-003		20.8143
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0134	7.3600e-003	0.0941	3.4000e-004	0.0318	2.5000e-004	0.0321	8.6200e-003	2.3000e-004	8.8500e-003		33.5017	33.5017	7.7000e-004		33.5210
Total	0.0150	0.0935	0.1115	5.3000e-004	0.5062	3.1000e-004	0.5065	0.0562	2.8000e-004	0.0565		54.2625	54.2625	2.9100e-003		54.3353

3.5 Phase 3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	5.5684	52.6035	39.3894	0.1207	4.9019	2.0263	6.9282	2.4910	1.8642	4.3552		11,686.3962	11,686.3962	3.7796		11,780.8866

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0566	3.1142	0.6309	6.7700e-003	235.1690	2.0100e-003	235.1710	23.4885	1.9200e-003	23.4904		750.6323	750.6323	0.0774		752.5673
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1962	0.1075	1.3738	4.9000e-003	0.5997	3.7200e-003	0.6034	0.1591	3.4200e-003	0.1625		489.1250	489.1250	0.0113		489.4068
Total	0.2528	3.2217	2.0047	0.0117	235.7687	5.7300e-003	235.7744	23.6476	5.3400e-003	23.6529		1,239.7573	1,239.7573	0.0887		1,241.9740

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000

Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.39	11,686.39	3.7796		11,780.88
												62	62			66
Total	1.4879	6.4839	54.2687	0.1207	1.2044	0.2001	1.4045	0.6121	0.1999	0.8119	0.0000	11,686.39	11,686.39	3.7796		11,780.88
												62	62			66

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0566	3.1142	0.6309	6.7700e-003	50.4678	2.0100e-003	50.4698	5.0469	1.9200e-003	5.0488		750.6323	750.6323	0.0774		752.5673
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1962	0.1075	1.3738	4.9000e-003	0.4642	3.7200e-003	0.4679	0.1258	3.4200e-003	0.1292		489.1250	489.1250	0.0113		489.4068
Total	0.2528	3.2217	2.0047	0.0117	50.9320	5.7300e-003	50.9377	5.1727	5.3400e-003	5.1780		1,239.7573	1,239.7573	0.0887		1,241.9740

3.5 Phase 3 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.39	11,686.39	3.7796		11,780.88
												62	62			66
Total	5.5684	52.6035	39.3894	0.1207	4.9019	2.0263	6.9282	2.4910	1.8642	4.3552		11,686.39	11,686.39	3.7796		11,780.88
												62	62			66

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0557	3.0723	0.6352	6.7100e-003	146.8769	1.9300e-003	146.8788	14.6723	1.8400e-003	14.6741		744.8411	744.8411	0.0760		746.7413
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1875	0.1004	1.2967	4.7400e-003	0.5997	3.5200e-003	0.6032	0.1591	3.2400e-003	0.1623		472.7485	472.7485	0.0106		473.0124
Total	0.2432	3.1726	1.9320	0.0115	147.4766	5.4500e-003	147.4820	14.8314	5.0800e-003	14.8364		1,217.5896	1,217.5896	0.0866		1,219.7537

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866
Total	1.4879	6.4839	54.2687	0.1207	1.2044	0.2001	1.4045	0.6121	0.1999	0.8119	0.0000	11,686.3962	11,686.3962	3.7796		11,780.8866

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0557	3.0723	0.6352	6.7100e-003	31.5271	1.9300e-003	31.5290	3.1551	1.8400e-003	3.1570		744.8411	744.8411	0.0760		746.7413

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1875	0.1004	1.2967	4.7400e-003	0.4642	3.5200e-003	0.4677	0.1258	3.2400e-003	0.1290		472.7485	472.7485	0.0106		473.0124
Total	0.2432	3.1726	1.9320	0.0115	31.9913	5.4500e-003	31.9967	3.2809	5.0800e-003	3.2860		1,217.5896	1,217.5896	0.0866		1,219.7537

3.5 Phase 3 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	5.5684	52.6035	39.3894	0.1207	4.9019	2.0263	6.9282	2.4910	1.8642	4.3552		11,686.3962	11,686.3962	3.7796		11,780.8866

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0549	3.0354	0.6431	6.6500e-003	684.4644	1.8500e-003	684.4662	68.3519	1.7700e-003	68.3536		739.6871	739.6871	0.0747		741.5553
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.5997	3.2600e-003	0.6029	0.1591	3.0000e-003	0.1621		458.3863	458.3863	9.9500e-003		458.6351
Total	0.2334	3.1294	1.8728	0.0112	685.0641	5.1100e-003	685.0692	68.5109	4.7700e-003	68.5157		1,198.0734	1,198.0734	0.0847		1,200.1904

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000				0.0000
Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.39 62	11,686.39 62	3.7796			11,780.88 66
Total	1.4879	6.4839	54.2687	0.1207	1.2044	0.2001	1.4045	0.6121	0.1999	0.8119	0.0000	11,686.39 62	11,686.39 62	3.7796			11,780.88 66

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0549	3.0354	0.6431	6.6500e-003	146.8520	1.8500e-003	146.8539	14.6736	1.7700e-003	14.6754		739.6871	739.6871	0.0747			741.5553
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.4642	3.2600e-003	0.4674	0.1258	3.0000e-003	0.1288		458.3863	458.3863	9.9500e-003			458.6351
Total	0.2334	3.1294	1.8728	0.0112	147.3162	5.1100e-003	147.3213	14.7994	4.7700e-003	14.8042		1,198.073 4	1,198.073 4	0.0847			1,200.190 4

3.6 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412			3,632.041 2

Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.3265	11.9754	3.4801	0.0420	1.1170	0.0136	1.1306	0.3215	0.0130	0.3345		4,556.947	4,556.947	0.2955		4,564.334
Worker	1.5801	0.8659	11.0653	0.0395	4.8303	0.0300	4.8602	1.2812	0.0276	1.3088		3,939.801	3,939.801	0.0908		3,942.071
Total	1.9065	12.8413	14.5454	0.0815	5.9473	0.0436	5.9908	1.6028	0.0406	1.6433		8,496.749	8,496.749	0.3863		8,506.405
												1	1			5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511	3,608.511	0.9412		3,632.041
Total	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.3265	11.9754	3.4801	0.0420	0.9100	0.0136	0.9235	0.2707	0.0130	0.2837		4,556.947	4,556.947	0.2955		4,564.334
Worker	1.5801	0.8659	11.0653	0.0395	3.7388	0.0300	3.7688	1.0133	0.0276	1.0409		3,939.801	3,939.801	0.0908		3,942.071
Total	1.9065	12.8413	14.5454	0.0815	4.6488	0.0436	4.6923	1.2840	0.0406	1.3246		8,496.749	8,496.749	0.3863		8,506.405
												1	1			5

3.6 Phase 2 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
												2	2			2
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.3193	11.8105	3.4388	0.0418	1.1170	0.0133	1.1303	0.3215	0.0127	0.3342		4,532.656	4,532.656	0.2930		4,539.981
												4	4			8
Worker	1.5105	0.8083	10.4448	0.0382	4.8303	0.0283	4.8586	1.2812	0.0261	1.3073		3,807.892	3,807.892	0.0850		3,810.017
												0	0			6
Total	1.8299	12.6188	13.8836	0.0799	5.9473	0.0416	5.9889	1.6028	0.0388	1.6415		8,340.548	8,340.548	0.3780		8,349.999
												4	4			4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511	3,608.511	0.9412		3,632.041
												2	2			2
Total	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.3193	11.8105	3.4388	0.0418	0.9100	0.0133	0.9232	0.2707	0.0127	0.2834		4,532.656	4,532.656	0.2930		4,539.981
												4	4			8
Worker	1.5105	0.8083	10.4448	0.0382	3.7388	0.0283	3.7672	1.0133	0.0261	1.0394		3,807.892	3,807.892	0.0850		3,810.017
												0	0			6
Total	1.8299	12.6188	13.8836	0.0799	4.6488	0.0416	4.6904	1.2840	0.0388	1.3228		8,340.548	8,340.548	0.3780		8,349.999
												4	4			4

3.6 Phase 2 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412		3,632.041 2
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412		3,632.041 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	0.3137	11.6727	3.4182	0.0415	1.1170	0.0130	1.1300	0.3215	0.0125	0.3340		4,512.294 7	4,512.294 7	0.2908		4,519.564 0
Worker	1.4376	0.7575	9.9048	0.0370	4.8303	0.0263	4.8565	1.2812	0.0242	1.3054		3,692.207 3	3,692.207 3	0.0802		3,694.211 1
Total	1.7513	12.4302	13.3230	0.0785	5.9473	0.0393	5.9865	1.6028	0.0366	1.6394		8,204.501 9	8,204.501 9	0.3709		8,213.775 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511 2	3,608.511 2	0.9412		3,632.041 2

Total	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.3137	11.6727	3.4182	0.0415	0.9100	0.0130	0.9230	0.2707	0.0125	0.2832		4,512.294	4,512.294	0.2908		4,519.564
Worker	1.4376	0.7575	9.9048	0.0370	3.7388	0.0263	3.7651	1.0133	0.0242	1.0375		3,692.207	3,692.207	0.0802		3,694.211
												3	3			1
Total	1.7513	12.4302	13.3230	0.0785	4.6488	0.0393	4.6880	1.2840	0.0366	1.3206		8,204.501	8,204.501	0.3709		8,213.775
												9	9			2

3.6 Phase 2 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
												2	2			2
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.3083	11.5308	3.3948	0.0413	1.1170	0.0127	1.1297	0.3215	0.0122	0.3337		4,492.340	4,492.340	0.2892		4,499.569
Worker	1.3588	0.7107	9.3924	0.0360	4.8303	0.0244	4.8547	1.2812	0.0224	1.3036		3,590.570	3,590.570	0.0757		3,592.461
Total	1.6671	12.2415	12.7872	0.0773	5.9473	0.0371	5.9843	1.6028	0.0346	1.6373		8,082.910	8,082.910	0.3648		8,092.030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511	3,608.511	0.9412		3,632.041
Total	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511	3,608.511	0.9412		3,632.041

Mitigated Construction Off-Site

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

Vendor	0.3083	11.5308	3.3948	0.0413	0.9099	0.0127	0.9227	0.2707	0.0122	0.2829		4,492.340	4,492.340	0.2892		4,499.569
												0	0			1
Worker	1.3588	0.7107	9.3924	0.0360	3.7388	0.0244	3.7632	1.0133	0.0224	1.0357		3,590.570	3,590.570	0.0757		3,592.461
												5	5			8
Total	1.6671	12.2415	12.7872	0.0773	4.6488	0.0371	4.6859	1.2840	0.0346	1.3186		8,082.910	8,082.910	0.3648		8,092.030
												5	5			9

3.7 Phase 3 Utilities - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.3225	9.1426	16.2821	0.0431		0.3699	0.3699		0.3403	0.3403			4,172.467	4,172.467	1.3495		4,206.203
													0	0			5
Total	1.3225	9.1426	16.2821	0.0431		0.3699	0.3699		0.3403	0.3403			4,172.467	4,172.467	1.3495		4,206.203
													0	0			5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	1.5400e-003	0.0850	0.0176	1.9000e-004	20.6134	5.0000e-005	20.6135	2.0585	5.0000e-005	2.0585			20.6006	20.6006	2.1000e-003		20.6532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000		0.0000
Worker	0.2774	0.1485	1.9184	7.0100e-003	0.8872	5.2100e-003	0.8924	0.2353	4.7900e-003	0.2401			699.4087	699.4087	0.0156		699.7991
Total	0.2790	0.2334	1.9360	7.2000e-003	21.5006	5.2600e-003	21.5059	2.2938	4.8400e-003	2.2987			720.0094	720.0094	0.0177		720.4523

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6124	3.0363	23.7824	0.0431		0.1111	0.1111		0.1074	0.1074	0.0000	4,172.4670	4,172.4670	1.3495		4,206.2035
Total	0.6124	3.0363	23.7824	0.0431		0.1111	0.1111		0.1074	0.1074	0.0000	4,172.4670	4,172.4670	1.3495		4,206.2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5400e-003	0.0850	0.0176	1.9000e-004	4.4226	5.0000e-005	4.4226	0.4419	5.0000e-005	0.4419		20.6006	20.6006	2.1000e-003		20.6532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2774	0.1485	1.9184	7.0100e-003	0.6867	5.2100e-003	0.6919	0.1861	4.7900e-003	0.1909		699.4087	699.4087	0.0156		699.7991
Total	0.2790	0.2334	1.9360	7.2000e-003	5.1093	5.2600e-003	5.1146	0.6280	4.8400e-003	0.6329		720.0094	720.0094	0.0177		720.4523

3.7 Phase 3 Utilities - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3225	9.1426	16.2821	0.0431		0.3699	0.3699		0.3403	0.3403		4,172.4670	4,172.4670	1.3495		4,206.2035

Total	1.3225	9.1426	16.2821	0.0431		0.3699	0.3699		0.3403	0.3403		4,172.467	4,172.467	1.3495		4,206.203
												0	0			5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5200e-003	0.0840	0.0178	1.8000e-004	2.4841	5.0000e-005	2.4842	0.2482	5.0000e-005	0.2483		20.4581	20.4581	2.0700e-003		20.5097
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2641	0.1391	1.8193	6.8000e-003	0.8872	4.8200e-003	0.8920	0.2353	4.4400e-003	0.2398		678.1605	678.1605	0.0147		678.5286
Total	0.2656	0.2231	1.8370	6.9800e-003	3.3713	4.8700e-003	3.3762	0.4836	4.4900e-003	0.4880		698.6186	698.6186	0.0168		699.0383

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6124	3.0363	23.7824	0.0431		0.1111	0.1111		0.1074	0.1074	0.0000	4,172.467	4,172.467	1.3495		4,206.203
Total	0.6124	3.0363	23.7824	0.0431		0.1111	0.1111		0.1074	0.1074	0.0000	4,172.467	4,172.467	1.3495		4,206.203

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5200e-003	0.0840	0.0178	1.8000e-004	0.5334	5.0000e-005	0.5335	0.0535	5.0000e-005	0.0535		20.4581	20.4581	2.0700e-003		20.5097
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2641	0.1391	1.8193	6.8000e-003	0.6867	4.8200e-003	0.6915	0.1861	4.4400e-003	0.1906		678.1605	678.1605	0.0147		678.5286
Total	0.2656	0.2231	1.8370	6.9800e-003	1.2201	4.8700e-003	1.2250	0.2396	4.4900e-003	0.2441		698.6186	698.6186	0.0168		699.0383

3.8 Phase 3 Surface Improvements - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827

Unmitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3667	0.1932	2.5267	9.4400e-003	1.2322	6.7000e-003	1.2389	0.3268	6.1600e-003	0.3330		941.8896	941.8896	0.0205		942.4008
Total	0.3667	0.1932	2.5267	9.4400e-003	1.2322	6.7000e-003	1.2389	0.3268	6.1600e-003	0.3330		941.8896	941.8896	0.0205		942.4008

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.592 2	1,470.592 2	0.4756		1,482.482 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.592 2	1,470.592 2	0.4756		1,482.482 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3667	0.1932	2.5267	9.4400e-003	0.9538	6.7000e-003	0.9605	0.2585	6.1600e-003	0.2647		941.8896	941.8896	0.0205		942.4008
Total	0.3667	0.1932	2.5267	9.4400e-003	0.9538	6.7000e-003	0.9605	0.2585	6.1600e-003	0.2647		941.8896	941.8896	0.0205		942.4008

3.8 Phase 3 Surface Improvements - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6138	4.1849	5.3019	0.0152		0.1746	0.1746		0.1606	0.1606		1,470.5923	1,470.5923	0.4756		1,482.4827

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3466	0.1813	2.3960	9.1800e-003	1.2322	6.2200e-003	1.2384	0.3268	5.7200e-003	0.3326		915.9619	915.9619	0.0193		916.4443
Total	0.3466	0.1813	2.3960	9.1800e-003	1.2322	6.2200e-003	1.2384	0.3268	5.7200e-003	0.3326		915.9619	915.9619	0.0193		916.4443

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.5922	1,470.5922	0.4756		1,482.4827
												2	2			7

Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1903	0.9261	7.9447	0.0152		0.0261	0.0261		0.0260	0.0260	0.0000	1,470.592	1,470.592	0.4756		1,482.482
												2	2			7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3466	0.1813	2.3960	9.1800e-003	0.9538	6.2200e-003	0.9600	0.2585	5.7200e-003	0.2642		915.9619	915.9619	0.0193		916.4443
Total	0.3466	0.1813	2.3960	9.1800e-003	0.9538	6.2200e-003	0.9600	0.2585	5.7200e-003	0.2642		915.9619	915.9619	0.0193		916.4443

3.9 Phase 4 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6895	0.0000	8.6895	2.3348	0.0000	2.3348			0.0000			0.0000
Off-Road	1.2681	11.9786	14.6445	0.0245		0.4998	0.4998		0.4598	0.4598		2,371.880	2,371.880	0.7671		2,391.058
												1	1			0
Total	1.2681	11.9786	14.6445	0.0245	8.6895	0.4998	9.1893	2.3348	0.4598	2.7946		2,371.880	2,371.880	0.7671		2,391.058
												1	1			0

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5200e-003	0.0840	0.0178	1.8000e-004	2.2658	5.0000e-005	2.2658	0.2264	5.0000e-005	0.2265		20.4581	20.4581	2.0700e-003		20.5097
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0122	6.4400e-003	0.0842	3.1000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.1000e-004	0.0111		31.3963	31.3963	6.8000e-004		31.4134
Total	0.0137	0.0904	0.1020	4.9000e-004	2.3069	2.7000e-004	2.3071	0.2373	2.6000e-004	0.2376		51.8544	51.8544	2.7500e-003		51.9231

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1350	0.0000	2.1350	0.5737	0.0000	0.5737			0.0000			0.0000
Off-Road	0.4681	3.4009	14.5446	0.0245		0.1281	0.1281		0.1203	0.1203	0.0000	2,371.880	2,371.880	0.7671		2,391.058
Total	0.4681	3.4009	14.5446	0.0245	2.1350	0.1281	2.2631	0.5737	0.1203	0.6939	0.0000	2,371.880	2,371.880	0.7671		2,391.058

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5200e-003	0.0840	0.0178	1.8000e-004	0.4866	5.0000e-005	0.4866	0.0488	5.0000e-005	0.0488		20.4581	20.4581	2.0700e-003		20.5097

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0122	6.4400e-003	0.0842	3.1000e-004	0.0318	2.2000e-004	0.0320	8.6200e-003	2.1000e-004	8.8200e-003		31.3963	31.3963	6.8000e-004		31.4134
Total	0.0137	0.0904	0.1020	4.9000e-004	0.5184	2.7000e-004	0.5187	0.0574	2.6000e-004	0.0576		51.8544	51.8544	2.7500e-003		51.9231

3.10 Phase 4 Grading - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.3962	11,686.3962	3.7796		11,780.8866
Total	5.5684	52.6035	39.3894	0.1207	4.9019	2.0263	6.9282	2.4910	1.8642	4.3552		11,686.3962	11,686.3962	3.7796		11,780.8866

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0249	1.3740	0.2911	3.0100e-003	173.5112	8.4000e-004	173.5121	17.3284	8.0000e-004	17.3292		334.8304	334.8304	0.0338		335.6761
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.5997	3.2600e-003	0.6029	0.1591	3.0000e-003	0.1621		458.3863	458.3863	9.9500e-003		458.6351
Total	0.2033	1.4681	1.5208	7.6000e-003	174.1109	4.1000e-003	174.1150	17.4875	3.8000e-003	17.4913		793.2167	793.2167	0.0438		794.3111

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.39 62	11,686.39 62	3.7796		11,780.88 66
Total	1.4879	6.4839	54.2687	0.1207	1.2044	0.2001	1.4045	0.6121	0.1999	0.8119	0.0000	11,686.39 62	11,686.39 62	3.7796		11,780.88 66

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0249	1.3740	0.2911	3.0100e-003	37.2306	8.4000e-004	37.2314	3.7214	8.0000e-004	3.7222		334.8304	334.8304	0.0338		335.6761
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1785	0.0940	1.2297	4.5900e-003	0.4642	3.2600e-003	0.4674	0.1258	3.0000e-003	0.1288		458.3863	458.3863	9.9500e-003		458.6351
Total	0.2033	1.4681	1.5208	7.6000e-003	37.6948	4.1000e-003	37.6989	3.8472	3.8000e-003	3.8510		793.2167	793.2167	0.0438		794.3111

3.10 Phase 4 Grading - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000

Off-Road	5.5684	52.6035	39.3894	0.1207		2.0263	2.0263		1.8642	1.8642		11,686.39	11,686.39	3.7796		11,780.88
												62	62			66
Total	5.5684	52.6035	39.3894	0.1207	4.9019	2.0263	6.9282	2.4910	1.8642	4.3552		11,686.39	11,686.39	3.7796		11,780.88
												62	62			66

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0245	1.3573	0.2936	2.9800e-003	66.4860	8.0000e-004	66.4868	6.6416	7.7000e-004	6.6424		332.4928	332.4928	0.0334		333.3271
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1687	0.0882	1.1661	4.4700e-003	0.5997	3.0300e-003	0.6027	0.1591	2.7800e-003	0.1619		445.7681	445.7681	9.3900e-003		446.0029
Total	0.1932	1.4455	1.4597	7.4500e-003	67.0857	3.8300e-003	67.0895	6.8007	3.5500e-003	6.8043		778.2609	778.2609	0.0428		779.3300

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4879	6.4839	54.2687	0.1207		0.2001	0.2001		0.1999	0.1999	0.0000	11,686.39	11,686.39	3.7796		11,780.88
												62	62			66
Total	1.4879	6.4839	54.2687	0.1207	1.2044	0.2001	1.4045	0.6121	0.1999	0.8119	0.0000	11,686.39	11,686.39	3.7796		11,780.88
												62	62			66

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0245	1.3573	0.2936	2.9800e-003	14.2712	8.0000e-004	14.2720	1.4282	7.7000e-004	1.4290		332.4928	332.4928	0.0334		333.3271
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1687	0.0882	1.1661	4.4700e-003	0.4642	3.0300e-003	0.4672	0.1258	2.7800e-003	0.1286		445.7681	445.7681	9.3900e-003		446.0029
Total	0.1932	1.4455	1.4597	7.4500e-003	14.7354	3.8300e-003	14.7392	1.5540	3.5500e-003	1.5576		778.2609	778.2609	0.0428		779.3300

3.10 Phase 4 Grading - 2030
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9019	0.0000	4.9019	2.4910	0.0000	2.4910			0.0000			0.0000
Off-Road	6.5293	27.2739	29.9533	0.1236		1.0216	1.0216		1.0216	1.0216		14,036.0011	14,036.0011	0.5810		14,050.5267
Total	6.5293	27.2739	29.9533	0.1236	4.9019	1.0216	5.9235	2.4910	1.0216	3.5126		14,036.0011	14,036.0011	0.5810		14,050.5267

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0243	1.3435	0.2966	2.9600e-003	145.8095	7.7000e-004	145.8102	14.5623	7.4000e-004	14.5630		330.7062	330.7062	0.0330		331.5305

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1580	0.0826	1.1057	4.3600e-003	0.5997	2.8100e-003	0.6025	0.1591	2.5900e-003	0.1617		434.6808	434.6808	8.8700e-003		434.9024
Total	0.1823	1.4261	1.4023	7.3200e-003	146.4091	3.5800e-003	146.4127	14.7214	3.3300e-003	14.7247		765.3870	765.3870	0.0418		766.4329

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2044	0.0000	1.2044	0.6121	0.0000	0.6121			0.0000			0.0000
Off-Road	1.4898	6.4317	54.2668	0.1236		0.1980	0.1980		0.1980	0.1980	0.0000	14,036.0011	14,036.0011	0.5810		14,050.5267
Total	1.4898	6.4317	54.2668	0.1236	1.2044	0.1980	1.4024	0.6121	0.1980	0.8100	0.0000	14,036.0011	14,036.0011	0.5810		14,050.5267

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0243	1.3435	0.2966	2.9600e-003	31.2879	7.7000e-004	31.2887	3.1278	7.4000e-004	3.1286		330.7062	330.7062	0.0330		331.5305
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1580	0.0826	1.1057	4.3600e-003	0.4642	2.8100e-003	0.4670	0.1258	2.5900e-003	0.1284		434.6808	434.6808	8.8700e-003		434.9024
Total	0.1823	1.4261	1.4023	7.3200e-003	31.7521	3.5800e-003	31.7557	3.2536	3.3300e-003	3.2569		765.3870	765.3870	0.0418		766.4329

3.11 Phase 3 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412		3,632.041 2
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511 2	3,608.511 2	0.9412		3,632.041 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	0.2795	10.3993	3.0453	0.0370	0.9951	0.0116	1.0067	0.2865	0.0111	0.2976		4,020.044 4	4,020.044 4	0.2591		4,026.520 7
Worker	1.2836	0.6763	8.8436	0.0331	4.3128	0.0234	4.3362	1.1439	0.0216	1.1655		3,296.613 6	3,296.613 6	0.0716		3,298.402 8
Total	1.5630	11.0756	11.8889	0.0700	5.3079	0.0350	5.3429	1.4304	0.0327	1.4631		7,316.658 0	7,316.658 0	0.3306		7,324.923 5

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511 2	3,608.511 2	0.9412		3,632.041 2

Total	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.2795	10.3993	3.0453	0.0370	0.8107	0.0116	0.8223	0.2412	0.0111	0.2523		4,020.044	4,020.044	0.2591		4,026.520
Worker	1.2836	0.6763	8.8436	0.0331	3.3382	0.0234	3.3617	0.9047	0.0216	0.9263		3,296.613	3,296.613	0.0716		3,298.402
Total	1.5630	11.0756	11.8889	0.0700	4.1489	0.0350	4.1839	1.1459	0.0327	1.1786		7,316.658	7,316.658	0.3306		7,324.923
												0	0			5

3.11 Phase 3 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
Total	1.7971	15.0997	20.7931	0.0378		0.6381	0.6381		0.5979	0.5979		3,608.511	3,608.511	0.9412		3,632.041
												2	2			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	0.2747	10.2729	3.0245	0.0368	0.9951	0.0113	1.0065	0.2865	0.0108	0.2973		4,002.2665	4,002.2665	0.2576		4,008.7070
Worker	1.2132	0.6345	8.3860	0.0321	4.3128	0.0218	4.3345	1.1439	0.0200	1.1640		3,205.8665	3,205.8665	0.0676		3,207.5552
Total	1.4879	10.9074	11.4105	0.0689	5.3079	0.0331	5.3410	1.4304	0.0309	1.4613		7,208.1331	7,208.1331	0.3252		7,216.2622

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412
Total	1.3650	11.3583	22.5948	0.0378		0.4746	0.4746		0.4495	0.4495	0.0000	3,608.5112	3,608.5112	0.9412		3,632.0412

Mitigated Construction Off-Site

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

Vendor	0.2747	10.2729	3.0245	0.0368	0.8107	0.0113	0.8220	0.2412	0.0108	0.2520		4,002.266	4,002.266	0.2576		4,008.707
												5	5			0
Worker	1.2132	0.6345	8.3860	0.0321	3.3382	0.0218	3.3600	0.9047	0.0200	0.9248		3,205.866	3,205.866	0.0676		3,207.555
												5	5			2
Total	1.4879	10.9074	11.4105	0.0689	4.1489	0.0331	4.1820	1.1459	0.0309	1.1768		7,208.133	7,208.133	0.3252		7,216.262
												1	1			2

3.11 Phase 3 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8023	9.0554	20.8612	0.0431		0.1937	0.1937		0.1937	0.1937			4,162.058	4,162.058	0.1595		4,166.045
													4	4			6
Total	1.8023	9.0554	20.8612	0.0431		0.1937	0.1937		0.1937	0.1937			4,162.058	4,162.058	0.1595		4,166.045
													4	4			6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	0.2710	10.1660	3.0138	0.0366	0.9951	0.0111	1.0062	0.2865	0.0106	0.2971			3,987.828	3,987.828	0.2564	3,994.238
													5	5		0
Worker	1.1366	0.5943	7.9520	0.0313	4.3128	0.0202	4.3330	1.1439	0.0186	1.1625			3,126.128	3,126.128	0.0638	3,127.722
													7	7		6
Total	1.4076	10.7602	10.9658	0.0680	5.3079	0.0313	5.3392	1.4304	0.0292	1.4596			7,113.957	7,113.957	0.3201	7,121.960
													2	2		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					
Off-Road	1.2489	7.2666	22.5003	0.0431		0.1458	0.1458		0.1458	0.1458	0.0000	4,162.0584	4,162.0584	0.1595		4,166.0456
Total	1.2489	7.2666	22.5003	0.0431		0.1458	0.1458		0.1458	0.1458	0.0000	4,162.0584	4,162.0584	0.1595		4,166.0456

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2710	10.1660	3.0138	0.0366	0.8107	0.0111	0.8218	0.2412	0.0106	0.2518		3,987.8285	3,987.8285	0.2564		3,994.2380
Worker	1.1366	0.5943	7.9520	0.0313	3.3382	0.0202	3.3584	0.9047	0.0186	0.9233		3,126.1287	3,126.1287	0.0638		3,127.7226
Total	1.4076	10.7602	10.9658	0.0680	4.1489	0.0313	4.1802	1.1459	0.0292	1.1752		7,113.9572	7,113.9572	0.3201		7,121.9606

3.11 Phase 3 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8023	9.0554	20.8612	0.0431		0.1937	0.1937		0.1937	0.1937		4,162.0584	4,162.0584	0.1595		4,166.0456

Total	1.8023	9.0554	20.8612	0.0431		0.1937	0.1937		0.1937	0.1937		4,162.058	4,162.058	0.1595		4,166.045
												4	4			6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2680	10.0737	3.0047	0.0365	0.9951	0.0109	1.0061	0.2865	0.0105	0.2969		3,975.700	3,975.700	0.2552		3,982.080
												2	2			2
Worker	1.0557	0.5567	7.5406	0.0306	4.3128	0.0188	4.3316	1.1439	0.0173	1.1613		3,056.391	3,056.391	0.0603		3,057.900
												9	9			4
Total	1.3237	10.6304	10.5453	0.0671	5.3079	0.0298	5.3376	1.4304	0.0278	1.4582		7,032.092	7,032.092	0.3155		7,039.980
												1	1			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					
Off-Road	1.2489	7.2666	22.5003	0.0431		0.1458	0.1458		0.1458	0.1458	0.0000	4,162.058	4,162.058	0.1595		4,166.045
												4	4			6
Total	1.2489	7.2666	22.5003	0.0431		0.1458	0.1458		0.1458	0.1458	0.0000	4,162.058	4,162.058	0.1595		4,166.045
												4	4			6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2680	10.0737	3.0047	0.0365	0.8107	0.0109	0.8216	0.2412	0.0105	0.2516		3,975.700 2	3,975.700 2	0.2552		3,982.080 2
Worker	1.0557	0.5567	7.5406	0.0306	3.3382	0.0188	3.3570	0.9047	0.0173	0.9220		3,056.391 9	3,056.391 9	0.0603		3,057.900 4
Total	1.3237	10.6304	10.5453	0.0671	4.1489	0.0298	4.1786	1.1459	0.0278	1.1737		7,032.092 1	7,032.092 1	0.3155		7,039.980 6

3.12 Phase 4 Utilities - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1562	7.9984	14.2596	0.0377		0.3237	0.3237		0.2978	0.2978		3,650.151 3	3,650.151 3	1.1805		3,679.664 6
Total	1.1562	7.9984	14.2596	0.0377		0.3237	0.3237		0.2978	0.2978		3,650.151 3	3,650.151 3	1.1805		3,679.664 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5000e-003	0.0829	0.0179	1.8000e-004	7.3624	5.0000e-005	7.3624	0.7353	5.0000e-005	0.7354		20.3152	20.3152	2.0400e-003		20.3662

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2496	0.1305	1.7251	6.6100e-003	0.8872	4.4800e-003	0.8917	0.2353	4.1200e-003	0.2394		659.4925	659.4925	0.0139		659.8399
Total	0.2511	0.2135	1.7431	6.7900e-003	8.2495	4.5300e-003	8.2541	0.9707	4.1700e-003	0.9748		679.8078	679.8078	0.0159		680.2062

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5359	2.6570	20.8170	0.0377		0.0972	0.0972		0.0940	0.0940	0.0000	3,650.1513	3,650.1513	1.1805		3,679.6646
Total	0.5359	2.6570	20.8170	0.0377		0.0972	0.0972		0.0940	0.0940	0.0000	3,650.1513	3,650.1513	1.1805		3,679.6646

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.5000e-003	0.0829	0.0179	1.8000e-004	1.5799	5.0000e-005	1.5800	0.1580	5.0000e-005	0.1580		20.3152	20.3152	2.0400e-003		20.3662
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2496	0.1305	1.7251	6.6100e-003	0.6867	4.4800e-003	0.6912	0.1861	4.1200e-003	0.1902		659.4925	659.4925	0.0139		659.8399
Total	0.2511	0.2135	1.7431	6.7900e-003	2.2666	4.5300e-003	2.2712	0.3441	4.1700e-003	0.3483		679.8078	679.8078	0.0159		680.2062

3.12 Phase 4 Utilities - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6022	3.8020	14.9349	0.0440		0.1427	0.1427		0.1427	0.1427		4,400.9735	4,400.9735	0.1418		4,404.5175
Total	1.6022	3.8020	14.9349	0.0440		0.1427	0.1427		0.1427	0.1427		4,400.9735	4,400.9735	0.1418		4,404.5175

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4800e-003	0.0821	0.0181	1.8000e-004	3.1557	5.0000e-005	3.1557	0.3153	5.0000e-005	0.3153		20.2061	20.2061	2.0100e-003		20.2565
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2338	0.1223	1.6358	6.4400e-003	0.8872	4.1600e-003	0.8914	0.2353	3.8300e-003	0.2392		643.0893	643.0893	0.0131		643.4172
Total	0.2353	0.2043	1.6540	6.6200e-003	4.0429	4.2100e-003	4.0471	0.5506	3.8800e-003	0.5545		663.2954	663.2954	0.0151		663.6737

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5576	2.1708	20.9497	0.0440		0.0703	0.0703		0.0703	0.0703	0.0000	4,400.9735	4,400.9735	0.1418		4,404.5175

Total	0.5576	2.1708	20.9497	0.0440		0.0703	0.0703		0.0703	0.0703	0.0000	4,400.9735	4,400.9735	0.1418		4,404.5175
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4800e-003	0.0821	0.0181	1.8000e-004	0.6775	5.0000e-005	0.6775	0.0678	5.0000e-005	0.0679		20.2061	20.2061	2.0100e-003		20.2565
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2338	0.1223	1.6358	6.4400e-003	0.6867	4.1600e-003	0.6909	0.1861	3.8300e-003	0.1899		643.0893	643.0893	0.0131		643.4172
Total	0.2353	0.2043	1.6540	6.6200e-003	1.3642	4.2100e-003	1.3684	0.2540	3.8800e-003	0.2578		663.2954	663.2954	0.0151		663.6737

3.13 Phase 4 Surface Improvements - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7190	2.0741	5.2243	0.0163		0.0785	0.0785		0.0785	0.0785		1,757.9229	1,757.9229	0.0635		1,759.5106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7190	2.0741	5.2243	0.0163		0.0785	0.0785		0.0785	0.0785		1,757.9229	1,757.9229	0.0635		1,759.5106

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3247	0.1698	2.2720	8.9500e-003	1.2322	5.7800e-003	1.2380	0.3268	5.3100e-003	0.3322		893.1796	893.1796	0.0182		893.6350
Total	0.3247	0.1698	2.2720	8.9500e-003	1.2322	5.7800e-003	1.2380	0.3268	5.3100e-003	0.3322		893.1796	893.1796	0.0182		893.6350

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1914	0.9178	7.9478	0.0163		0.0251	0.0251		0.0251	0.0251	0.0000	1,757.9229	1,757.9229	0.0635		1,759.5106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1914	0.9178	7.9478	0.0163		0.0251	0.0251		0.0251	0.0251	0.0000	1,757.9229	1,757.9229	0.0635		1,759.5106

Mitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3247	0.1698	2.2720	8.9500e-003	0.9538	5.7800e-003	0.9596	0.2585	5.3100e-003	0.2638		893.1796	893.1796	0.0182		893.6350
Total	0.3247	0.1698	2.2720	8.9500e-003	0.9538	5.7800e-003	0.9596	0.2585	5.3100e-003	0.2638		893.1796	893.1796	0.0182		893.6350

3.13 Phase 4 Surface Improvements - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7190	2.0741	5.2243	0.0163		0.0785	0.0785		0.0785	0.0785		1,757.9229	1,757.9229	0.0635		1,759.5106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7190	2.0741	5.2243	0.0163		0.0785	0.0785		0.0785	0.0785		1,757.9229	1,757.9229	0.0635		1,759.5106

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3016	0.1591	2.1545	8.7500e-003	1.2322	5.3700e-003	1.2376	0.3268	4.9400e-003	0.3318		873.2548	873.2548	0.0172		873.6858
Total	0.3016	0.1591	2.1545	8.7500e-003	1.2322	5.3700e-003	1.2376	0.3268	4.9400e-003	0.3318		873.2548	873.2548	0.0172		873.6858

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1914	0.9178	7.9478	0.0163		0.0251	0.0251		0.0251	0.0251	0.0000	1,757.9229	1,757.9229	0.0635		1,759.5106
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1914	0.9178	7.9478	0.0163		0.0251	0.0251		0.0251	0.0251	0.0000	1,757.9229	1,757.9229	0.0635		1,759.5106

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3016	0.1591	2.1545	8.7500e-003	0.9538	5.3700e-003	0.9592	0.2585	4.9400e-003	0.2634		873.2548	873.2548	0.0172		873.6858
Total	0.3016	0.1591	2.1545	8.7500e-003	0.9538	5.3700e-003	0.9592	0.2585	4.9400e-003	0.2634		873.2548	873.2548	0.0172		873.6858

3.14 Phase 4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.2720	4,526.2720	0.1723		4,530.5797

Total	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.272	4,526.272	0.1723		4,530.579
												0	0			7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4332	16.2518	4.8180	0.0586	1.5908	0.0178	1.6086	0.4580	0.0170	0.4749		6,375.100	6,375.100	0.4099		6,385.346
												0	0			5
Worker	1.8142	0.9485	12.6929	0.0500	6.8840	0.0323	6.9163	1.8260	0.0297	1.8556		4,989.896	4,989.896	0.1018		4,992.441
												8	8			1
Total	2.2474	17.2003	17.5109	0.1086	8.4748	0.0501	8.5249	2.2839	0.0467	2.3306		11,364.99	11,364.99	0.5116		11,377.78
												68	68			76

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.272	4,526.272	0.1723		4,530.579
												0	0			7
Total	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.272	4,526.272	0.1723		4,530.579
												0	0			7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4332	16.2518	4.8180	0.0586	1.2960	0.0178	1.3138	0.3856	0.0170	0.4026		6,375.100 0	6,375.100 0	0.4099		6,385.346 5
Worker	1.8142	0.9485	12.6929	0.0500	5.3284	0.0323	5.3607	1.4441	0.0297	1.4738		4,989.896 8	4,989.896 8	0.1018		4,992.441 1
Total	2.2474	17.2003	17.5109	0.1086	6.6244	0.0501	6.6745	1.8297	0.0467	1.8764		11,364.99 68	11,364.99 68	0.5116		11,377.78 76

3.14 Phase 4 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.272 0	4,526.272 0	0.1723		4,530.579 7
Total	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.272 0	4,526.272 0	0.1723		4,530.579 7

Unmitigated Construction Off-Site

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

Vendor	0.4285	16.1042	4.8034	0.0583	1.5908	0.0175	1.6083	0.4580	0.0167	0.4747		6,355.711	6,355.711	0.4080		6,365.910
												1	1			5
Worker	1.6850	0.8886	12.0363	0.0489	6.8840	0.0300	6.9140	1.8260	0.0276	1.8536		4,878.583	4,878.583	0.0963		4,880.991
												7	7			5
Total	2.1135	16.9928	16.8397	0.1072	8.4748	0.0475	8.5223	2.2839	0.0443	2.3282		11,234.29	11,234.29	0.5043		11,246.90
												48	48			20

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.272	4,526.272	0.1723		4,530.579
												0	0			7
Total	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.272	4,526.272	0.1723		4,530.579
												0	0			7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4285	16.1042	4.8034	0.0583	1.2960	0.0175	1.3135	0.3856	0.0167	0.4023		6,355.711	6,355.711	0.4080		6,365.910
												1	1			5
Worker	1.6850	0.8886	12.0363	0.0489	5.3284	0.0300	5.3585	1.4441	0.0276	1.4718		4,878.583	4,878.583	0.0963		4,880.991
												7	7			5
Total	2.1135	16.9928	16.8397	0.1072	6.6244	0.0475	6.6719	1.8297	0.0443	1.8741		11,234.29	11,234.29	0.5043		11,246.90
												48	48			20

3.14 Phase 4 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.2720	4,526.2720	0.1723		4,530.5797
Total	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.2720	4,526.2720	0.1723		4,530.5797

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4247	15.9727	4.7971	0.0582	1.5908	0.0172	1.6081	0.4580	0.0165	0.4744		6,341.3486	6,341.3486	0.4064		6,351.5090
Worker	1.5707	0.8387	11.4708	0.0479	6.8840	0.0280	6.9119	1.8260	0.0257	1.8517		4,781.9955	4,781.9955	0.0918		4,784.2913
Total	1.9954	16.8114	16.2679	0.1061	8.4748	0.0452	8.5200	2.2839	0.0422	2.3261		11,123.3441	11,123.3441	0.4983		11,135.8002

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.2720	4,526.2720	0.1723		4,530.5797

Total	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.272	4,526.272	0.1723		4,530.579
												0	0			7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4247	15.9727	4.7971	0.0582	1.2960	0.0172	1.3132	0.3856	0.0165	0.4021		6,341.348	6,341.348	0.4064		6,351.509
Worker	1.5707	0.8387	11.4708	0.0479	5.3284	0.0280	5.3564	1.4441	0.0257	1.4699		4,781.995	4,781.995	0.0918		4,784.291
Total	1.9954	16.8114	16.2679	0.1061	6.6244	0.0452	6.6696	1.8297	0.0422	1.8719		11,123.34	11,123.34	0.4983		11,135.80
												41	41			02

3.14 Phase 4 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.272	4,526.272	0.1723		4,530.579
Total	1.9491	9.4162	23.0563	0.0469		0.2097	0.2097		0.2097	0.2097		4,526.272	4,526.272	0.1723		4,530.579
												0	0			7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4219	15.8545	4.7944	0.0580	1.5908	0.0170	1.6079	0.4580	0.0163	0.4742		6,329.802	6,329.802	0.4051		6,339.930
												4	4			3
Worker	1.4708	0.7964	10.9824	0.0471	6.8840	0.0261	6.9101	1.8260	0.0240	1.8500		4,698.823	4,698.823	0.0880		4,701.022
												2	2			7
Total	1.8927	16.6509	15.7767	0.1051	8.4748	0.0431	8.5179	2.2839	0.0403	2.3242		11,028.62	11,028.62	0.4931		11,040.95
												56	56			31

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.272	4,526.272	0.1723		4,530.579
												0	0			7
Total	1.2874	7.4332	24.8715	0.0469		0.1510	0.1510		0.1510	0.1510	0.0000	4,526.272	4,526.272	0.1723		4,530.579
												0	0			7

Mitigated Construction Off-Site

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

Vendor	0.4219	15.8545	4.7944	0.0580	1.2960	0.0170	1.3130	0.3856	0.0163	0.4018		6,329.802	6,329.802	0.4051		6,339.930
												4	4			3
Worker	1.4708	0.7964	10.9824	0.0471	5.3284	0.0261	5.3545	1.4441	0.0240	1.4682		4,698.823	4,698.823	0.0880		4,701.022
												2	2			7
Total	1.8927	16.6509	15.7767	0.1051	6.6244	0.0431	6.6675	1.8297	0.0403	1.8700		11,028.62	11,028.62	0.4931		11,040.95
												56	56			31

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	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	137.7703	0.0000	137.7703	33.8163	0.0000	33.8163		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	5,252.23	5,706.52	4837.79	15,012,965	15,012,965
Apartments Low Rise	2,866.65	3,114.60	2640.45	8,194,027	8,194,027
City Park	59.35	714.35	525.64	468,666	468,666
City Park	54.62	657.48	483.79	431,352	431,352
City Park	23.44	282.10	207.58	185,078	185,078
Elementary School	1,290.00	0.00	0.00	2,031,694	2,031,694
Regional Shopping Center	2,562.00	2,998.20	1514.40	4,338,828	4,338,828
Retirement Community	1,068.00	903.35	867.75	2,900,621	2,900,621
Single Family Housing	12,109.44	12,605.52	10964.64	34,311,512	34,311,512
User Defined Industrial	0.00	0.00	0.00		
Total	25,285.72	26,982.12	22,042.03	67,874,743	67,874,743

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Retirement Community	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	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
City Park	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
Elementary School	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
Regional Shopping Center	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
Retirement Community	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
Single Family Housing	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
User Defined Industrial	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

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	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779
NaturalGas Unmitigated	1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	24511.5	0.2643	2.2589	0.9612	0.0144		0.1826	0.1826		0.1826	0.1826		2,883.7117	2,883.7117	0.0553	0.0529	2,900.8482
Apartments Low Rise	13378.3	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	1355.98	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13685.9	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	81501.8	0.8789	7.5110	3.1962	0.0479		0.6073	0.6073		0.6073	0.6073		9,588.4488	9,588.4488	0.1838	0.1758	9,645.4281
User Defined Industrial	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		1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	13.3783	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
Apartments Low Rise	24.5115	0.2643	2.2589	0.9612	0.0144		0.1826	0.1826		0.1826	0.1826		2,883.7117	2,883.7117	0.0553	0.0529	2,900.8482
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	1.35598	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
Regional Shopping Center	0.366575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13.6859	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	81.5018	0.8789	7.5110	3.1962	0.0479		0.6073	0.6073		0.6073	0.6073		9,588.4488	9,588.4488	0.1838	0.1758	9,645.4281
User Defined Industrial	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		1.4537	12.4329	5.3606	0.0793		1.0044	1.0044		1.0044	1.0044		15,858.8367	15,858.8367	0.3040	0.2908	15,953.0779

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	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664
Unmitigated	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	88.3350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,398.5814	124.9569	7,898.3537	14.3096		1,107.4245	1,107.4245		1,107.4245	1,107.4245	116,113.6062	48,696.3529	164,809.9591	107.1536	9.1332	170,210.4959
Landscaping	7.2594	2.7981	242.5562	0.0129		1.3496	1.3496		1.3496	1.3496		438.3289	438.3289	0.4177		448.7705
Total	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	88.3350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,398.5814	124.9569	7,898.3537	14.3096		1,107.4245	1,107.4245		1,107.4245	1,107.4245	116,113.6062	48,696.3529	164,809.9591	107.1536	9.1332	170,210.4959
Landscaping	7.2594	2.7981	242.5562	0.0129		1.3496	1.3496		1.3496	1.3496		438.3289	438.3289	0.4177		448.7705
Total	6,494.1758	127.7550	8,140.9098	14.3225		1,108.7741	1,108.7741		1,108.7741	1,108.7741	116,113.6062	49,134.6818	165,248.2880	107.5713	9.1332	170,659.2664

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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

APPENDIX B

CALEEMOD PRINTOUT: FANITA RANCH OPERATION WITH SCHOOLS

Fanita Ranch Operation - San Diego County APCD Air District, Summer

Fanita Ranch Operation
San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	15.00	83,603.37	0
General Light Industry	1,389.56	1000sqft	31.90	1,389,564.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,203.00	Dwelling Unit	241.30	2,165,400.00	3441
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Value changed to reflect the Fanita Ranch Specific Plan
 Vehicle Trips - based on TIA trip length and total daily VMT

Energy Mitigation - 2019 Title 24 is 7% more efficient than 2016 Title 24

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	1,389,560.00	1,389,564.00
tblLandUse	LotAcreage	1.92	15.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	390.58	241.30
tblLandUse	LotAcreage	1.38	1.50
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.30
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.30
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.30
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80

tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	3.92
tblVehicleTrips	ST_TR	22.75	8.42
tblVehicleTrips	ST_TR	1.32	0.04
tblVehicleTrips	ST_TR	49.97	10.43
tblVehicleTrips	ST_TR	2.03	1.86
tblVehicleTrips	ST_TR	9.91	3.92
tblVehicleTrips	SU_TR	6.07	3.92
tblVehicleTrips	SU_TR	16.74	8.42
tblVehicleTrips	SU_TR	0.68	0.04
tblVehicleTrips	SU_TR	25.24	10.43
tblVehicleTrips	SU_TR	1.95	1.86

tblVehicleTrips	SU_TR	8.62	3.92
tblVehicleTrips	WD_TR	6.59	3.94
tblVehicleTrips	WD_TR	1.89	8.42
tblVehicleTrips	WD_TR	1.29	0.69
tblVehicleTrips	WD_TR	6.97	0.04
tblVehicleTrips	WD_TR	42.70	10.43
tblVehicleTrips	WD_TR	2.40	1.86
tblVehicleTrips	WD_TR	9.52	3.94

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.7960	3,836.7960	1.1964	0.0000	3,866.7052
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.796	3,836.796	1.1964	0.0000	3,866.705
												0	0			2
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.088	3,923.088	1.1967	0.0000	3,953.005
												8	8			5
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	6,671.4025	129.8185	8,271.3997	14.5586		1,127.0507	1,127.0507		1,127.0507	1,127.0507	118,029.8556	49,938.6340	167,968.4896	109.3404	9.2839	173,468.6140
Energy	1.9035	16.5357	8.8947	0.1038		1.3152	1.3152		1.3152	1.3152		20,765.9185	20,765.9185	0.3980	0.3807	20,889.3200
Mobile	20.1788	84.8894	314.9026	1.4924	180.8712	0.7048	181.5760	48.3227	0.6556	48.9783		153,044.0759	153,044.0759	6.7399		153,212.5737
Total	6,693.4848	231.2436	8,595.1971	16.1549	180.8712	1,129.0707	1,309.9419	48.3227	1,129.0214	1,177.3441	118,029.8556	223,748.6284	341,778.4840	116.4783	9.6647	347,570.5077

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	167.2239	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501	0.0000	438.6340	438.6340	0.4185	0.0000	449.0954
Energy	1.8168	15.7874	8.5256	0.0991		1.2553	1.2553		1.2553	1.2553		19,820.1102	19,820.1102	0.3799	0.3634	19,937.8912
Mobile	20.1788	84.8894	314.9026	1.4924	180.8712	0.7048	181.5760	48.3227	0.6556	48.9783		153,044.0759	153,044.0759	6.7399		153,212.5737

Total	189.2195	103.4762	566.1259	1.6044	180.8712	3.3102	184.1814	48.3227	3.2609	51.5837	0.0000	173,302.8 202	173,302.8 202	7.5383	0.3634	173,599.5 603
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	97.17	55.25	93.41	90.07	0.00	99.71	85.94	0.00	99.71	95.62	100.00	22.55	49.29	93.53	96.24	50.05

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000

Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

3.2 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003	151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003	151.8077

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	20.1788	84.8894	314.9026	1.4924	180.8712	0.7048	181.5760	48.3227	0.6556	48.9783		153,044.0759	153,044.0759	6.7399		153,212.5737
Unmitigated	20.1788	84.8894	314.9026	1.4924	180.8712	0.7048	181.5760	48.3227	0.6556	48.9783		153,044.0759	153,044.0759	6.7399		153,212.5737

4.2 Trip Summary Information

Land Use	Unmitigated Annual VMT	Mitigated Annual VMT
Apartments Low Rise	25,299,698	25,299,698
Apartments Low Rise	12,708,278	12,708,278
City Park	2,951,020	2,951,020
Elementary School	2,027,220	2,027,220
General Light Industry	240,761	240,761
Regional Shopping Center	2,186,796	2,186,796
Retirement Community	3,856,420	3,856,420
Single Family Housing	35,144,962	35,144,962
Total	84,415,154	84,415,154

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
Elementary School	11.30	11.30	11.30	65.00	30.00	5.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0
Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Elementary School	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Regional Shopping Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Retirement Community	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

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	1.8168	15.7874	8.5256	0.0991		1.2553	1.2553		1.2553	1.2553		19,820.1102	19,820.1102	0.3799	0.3634	19,937.8912
NaturalGas Unmitigated	1.9035	16.5357	8.8947	0.1038		1.3152	1.3152		1.3152	1.3152		20,765.9185	20,765.9185	0.3980	0.3807	20,889.3200

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	13378.3	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
Apartments Low Rise	26633.6	0.2872	2.4545	1.0445	0.0157		0.1985	0.1985		0.1985	0.1985		3,133.3680	3,133.3680	0.0601	0.0575	3,151.9881
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	1355.98	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
General Light Industry	44009.2	0.4746	4.3146	3.6243	0.0259		0.3279	0.3279		0.3279	0.3279		5,177.5535	5,177.5535	0.0992	0.0949	5,208.3212
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13685.9	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	77080.7	0.8313	7.1035	3.0228	0.0453		0.5743	0.5743		0.5743	0.5743		9,068.3206	9,068.3206	0.1738	0.1663	9,122.2091
Total		1.9035	16.5357	8.8947	0.1038		1.3152	1.3152		1.3152	1.3152		20,765.9185	20,765.9185	0.3980	0.3807	20,889.3200

Mitigated

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

Apartments Low Rise	12.7906	0.1379	1.1787	0.5016	7.5200e-003	0.0953	0.0953	0.0953	0.0953	1,504.7713	1,504.7713	0.0288	0.0276	1,513.7134
Apartments Low Rise	25.4635	0.2746	2.3466	0.9986	0.0150	0.1897	0.1897	0.1897	0.1897	2,995.7056	2,995.7056	0.0574	0.0549	3,013.5076
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	1.26876	0.0137	0.1244	0.1045	7.5000e-004	9.4500e-003	9.4500e-003	9.4500e-003	9.4500e-003	149.2654	149.2654	2.8600e-003	2.7400e-003	150.1524
General Light Industry	42.8606	0.4622	4.2020	3.5297	0.0252	0.3194	0.3194	0.3194	0.3194	5,042.4266	5,042.4266	0.0967	0.0924	5,072.3912
Regional Shopping Center	0.353458	3.8100e-003	0.0347	0.0291	2.1000e-004	2.6300e-003	2.6300e-003	2.6300e-003	2.6300e-003	41.5832	41.5832	8.0000e-004	7.6000e-004	41.8304
Retirement Community	13.0846	0.1411	1.2058	0.5131	7.7000e-003	0.0975	0.0975	0.0975	0.0975	1,539.3638	1,539.3638	0.0295	0.0282	1,548.5114
Single Family Housing	72.6495	0.7835	6.6952	2.8490	0.0427	0.5413	0.5413	0.5413	0.5413	8,546.9944	8,546.9944	0.1638	0.1567	8,597.7849
Total		1.8168	15.7874	8.5256	0.0991	1.2553	1.2553	1.2553	1.2553	19,820.1102	19,820.1102	0.3799	0.3634	19,937.8912

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	167.2239	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501	0.0000	438.6340	438.6340	0.4185	0.0000	449.0954
Unmitigated	6,671.4025	129.8185	8,271.3997	14.5586		1,127.0507	1,127.0507		1,127.0507	1,127.0507	118,029.8556	49,938.6340	167,968.4896	109.3404	9.2839	173,468.6140

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	43.2614					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	116.6901					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,504.1786	127.0191	8,028.7020	14.5457		1,125.7006	1,125.7006		1,125.7006	1,125.7006	118,029.8556	49,500.0000	167,529.8556	108.9220	9.2839	173,019.5187
Landscaping	7.2724	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501		438.6340	438.6340	0.4185		449.0954
Total	6,671.4025	129.8185	8,271.3997	14.5586		1,127.0507	1,127.0507		1,127.0507	1,127.0507	118,029.8556	49,938.6340	167,968.4896	109.3404	9.2839	173,468.6140

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	43.2614					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	116.6901					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	7.2724	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501		438.6340	438.6340	0.4185		449.0954
Total	167.2239	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501	0.0000	438.6340	438.6340	0.4185	0.0000	449.0954

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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Fanita Ranch Operation - San Diego County APCD Air District, Summer

Fanita Ranch Operation
San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	15.00	83,603.37	0
General Light Industry	1,389.56	1000sqft	31.90	1,389,564.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,203.00	Dwelling Unit	241.30	2,165,400.00	3441
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 100% renewable

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Vehicle Trips - based on TIA trip length and total daily VMT

Area Mitigation - low VOC paint

Energy Mitigation - 2019 Title 24 is 7% more efficient than 2016 Title 24

Water Mitigation -

Waste Mitigation -

Fleet Mix - from EMFAC for SD air basin 2035

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06

tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11

tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblLandUse	LandUseSquareFeet	1,389,560.00	1,389,564.00
tblLandUse	LotAcreage	1.92	15.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	390.58	241.30
tblLandUse	LotAcreage	1.38	1.50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	720.49	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblVehicleEF	HHD	0.41	0.03
tblVehicleEF	HHD	0.14	0.10
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	4,118.17	909.54
tblVehicleEF	HHD	1,512.65	1,140.56
tblVehicleEF	HHD	11.80	0.07
tblVehicleEF	LDA	4.2300e-003	7.6500e-004
tblVehicleEF	LDA	4.3850e-003	0.02
tblVehicleEF	LDA	176.13	192.39
tblVehicleEF	LDA	37.33	38.55
tblVehicleEF	LDT1	3.0420e-003	1.4080e-003
tblVehicleEF	LDT1	3.3850e-003	0.03
tblVehicleEF	LDT1	232.82	236.60
tblVehicleEF	LDT1	50.56	48.20

tblVehicleEF	LDT2	2.3870e-003	1.3510e-003
tblVehicleEF	LDT2	1.8590e-003	0.03
tblVehicleEF	LDT2	258.14	235.35
tblVehicleEF	LDT2	54.97	47.87
tblVehicleEF	LHD1	2.9300e-003	3.4250e-003
tblVehicleEF	LHD1	6.0480e-003	4.4990e-003
tblVehicleEF	LHD1	5.8730e-003	6.3550e-003
tblVehicleEF	LHD1	9.05	8.05
tblVehicleEF	LHD1	611.49	643.53
tblVehicleEF	LHD1	21.13	8.38
tblVehicleEF	LHD2	2.3040e-003	2.2940e-003
tblVehicleEF	LHD2	4.8200e-003	4.9830e-003
tblVehicleEF	LHD2	2.3670e-003	3.6980e-003
tblVehicleEF	LHD2	13.44	12.60
tblVehicleEF	LHD2	665.55	647.55
tblVehicleEF	LHD2	21.27	5.91
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	184.90	219.73
tblVehicleEF	MCY	42.31	58.02
tblVehicleEF	MDV	3.3710e-003	1.3140e-003
tblVehicleEF	MDV	3.7410e-003	0.03
tblVehicleEF	MDV	343.76	284.93
tblVehicleEF	MDV	72.70	57.01
tblVehicleEF	MH	6.7790e-003	4.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1,182.31	1,315.89
tblVehicleEF	MH	56.45	14.31
tblVehicleEF	MHD	0.02	3.8780e-003
tblVehicleEF	MHD	2.4120e-003	9.2700e-004
tblVehicleEF	MHD	0.03	8.2820e-003
tblVehicleEF	MHD	142.07	63.64

tblVehicleEF	MHD	1,162.62	937.84
tblVehicleEF	MHD	53.67	8.13
tblVehicleEF	OBUS	0.01	8.8730e-003
tblVehicleEF	OBUS	4.2710e-003	3.0810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	96.61	91.22
tblVehicleEF	OBUS	1,292.92	1,279.50
tblVehicleEF	OBUS	67.21	16.88
tblVehicleEF	SBUS	0.83	0.07
tblVehicleEF	SBUS	3.9020e-003	2.3430e-003
tblVehicleEF	SBUS	0.05	5.2140e-003
tblVehicleEF	SBUS	1,043.37	302.91
tblVehicleEF	SBUS	1,023.41	872.35
tblVehicleEF	SBUS	54.24	4.15
tblVehicleEF	UBUS	1.05	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	1,747.06	1,847.16
tblVehicleEF	UBUS	139.43	12.31
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.30
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.30
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.30
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00

tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	2.92
tblVehicleTrips	ST_TR	22.75	6.25
tblVehicleTrips	ST_TR	1.32	0.03
tblVehicleTrips	ST_TR	49.97	7.74

tblVehicleTrips	ST_TR	2.03	1.38
tblVehicleTrips	ST_TR	9.91	2.92
tblVehicleTrips	SU_TR	6.07	2.92
tblVehicleTrips	SU_TR	16.74	6.25
tblVehicleTrips	SU_TR	0.68	0.03
tblVehicleTrips	SU_TR	25.24	7.74
tblVehicleTrips	SU_TR	1.95	1.38
tblVehicleTrips	SU_TR	8.62	2.92
tblVehicleTrips	WD_TR	6.59	2.93
tblVehicleTrips	WD_TR	1.89	6.25
tblVehicleTrips	WD_TR	1.29	0.50
tblVehicleTrips	WD_TR	6.97	0.03
tblVehicleTrips	WD_TR	42.70	7.75
tblVehicleTrips	WD_TR	2.40	1.38
tblVehicleTrips	WD_TR	9.52	2.93

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.7960	3,836.7960	1.1964	0.0000	3,866.7052
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.7960	3,836.7960	1.1964	0.0000	3,866.7052
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

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

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	6,671.4025	129.8185	8,271.3997	14.5586		1,127.0507	1,127.0507		1,127.0507	1,127.0507	118,029.8556	49,938.6340	167,968.4896	109.3404	9.2839	173,468.6140
Energy	1.9035	16.5357	8.8947	0.1038		1.3152	1.3152		1.3152	1.3152		20,765.9185	20,765.9185	0.3980	0.3807	20,889.3200
Mobile	15.3506	58.4340	234.1894	1.1045	134.5031	0.5626	135.0657	35.9633	0.5242	36.4875		113,142.7526	113,142.7526	4.9166		113,265.6674
Total	6,688.6566	204.7882	8,514.4839	15.7669	134.5031	1,128.9285	1,263.4316	35.9633	1,128.8900	1,164.8534	118,029.8556	183,847.3051	301,877.1607	114.6550	9.6647	307,623.6014

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	120.4860	2.2268	184.3422	8.3500e-003		1.0070	1.0070		1.0070	1.0070	0.0000	306.8464	306.8464	0.2190	0.0000	312.3216
Energy	1.8168	15.7874	8.5256	0.0991		1.2553	1.2553		1.2553	1.2553		19,820.1102	19,820.1102	0.3799	0.3634	19,937.8912
Mobile	15.3506	58.4340	234.1894	1.1045	134.5031	0.5626	135.0657	35.9633	0.5242	36.4875		113,142.7526	113,142.7526	4.9166		113,265.6674
Total	137.6534	76.4483	427.0572	1.2119	134.5031	2.8249	137.3280	35.9633	2.7865	38.7498	0.0000	133,269.7092	133,269.7092	5.5155	0.3634	133,515.8803

	ROG	NOx	CO	SO2	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	97.94	62.67	94.98	92.31	0.00	99.75	89.13	0.00	99.75	96.67	100.00	27.51	55.85	95.19	96.24	56.60

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Site Preparation		7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991			3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298			3,766.4529	3,766.4529	1.1917		3,796.2445

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000			0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402			156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402			156.6359	156.6359	5.0000e-003		156.7610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

3.2 Site Preparation - 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
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Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

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	15.3506	58.4340	234.1894	1.1045	134.5031	0.5626	135.0657	35.9633	0.5242	36.4875		113,142.7526	113,142.7526	4.9166		113,265.6674
Unmitigated	15.3506	58.4340	234.1894	1.1045	134.5031	0.5626	135.0657	35.9633	0.5242	36.4875		113,142.7526	113,142.7526	4.9166		113,265.6674

4.2 Trip Summary Information

	Unmitigated	Mitigated
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Land Use	Annual VMT	Annual VMT
Apartments Low Rise	18,823,196	18,823,196
Apartments Low Rise	9,455,070	9,455,070
City Park	2,190,484	2,190,484
Elementary School	1,469,000	1,469,000
General Light Industry	180,571	180,571
Regional Shopping Center	1,624,297	1,624,297
Retirement Community	2,861,215	2,861,215
Single Family Housing	26,148,158	26,148,158
Total	62,751,989	62,751,989

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
Elementary School	11.30	11.30	11.30	65.00	30.00	5.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0
Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
City Park	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Elementary School	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
General Light Industry	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Regional Shopping Center	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Retirement Community	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Single Family Housing	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	1.8168	15.7874	8.5256	0.0991		1.2553	1.2553		1.2553	1.2553		19,820.1102	19,820.1102	0.3799	0.3634	19,937.8912
Natural Gas Unmitigated	1.9035	16.5357	8.8947	0.1038		1.3152	1.3152		1.3152	1.3152		20,765.9185	20,765.9185	0.3980	0.3807	20,889.3200

5.2 Energy by Land Use - Natural Gas Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	13378.3	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
Apartments Low Rise	26633.6	0.2872	2.4545	1.0445	0.0157		0.1985	0.1985		0.1985	0.1985		3,133.3680	3,133.3680	0.0601	0.0575	3,151.9881
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	1355.98	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
General Light Industry	44009.2	0.4746	4.3146	3.6243	0.0259		0.3279	0.3279		0.3279	0.3279		5,177.5535	5,177.5535	0.0992	0.0949	5,208.3212
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828

Retirement Community	13685.9	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	77080.7	0.8313	7.1035	3.0228	0.0453		0.5743	0.5743		0.5743	0.5743		9,068.3206	9,068.3206	0.1738	0.1663	9,122.2091
Total		1.9035	16.5357	8.8947	0.1038		1.3152	1.3152		1.3152	1.3152		20,765.9185	20,765.9185	0.3980	0.3807	20,889.3200

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	12.7906	0.1379	1.1787	0.5016	7.5200e-003		0.0953	0.0953		0.0953	0.0953		1,504.7713	1,504.7713	0.0288	0.0276	1,513.7134
Apartments Low Rise	25.4635	0.2746	2.3466	0.9986	0.0150		0.1897	0.1897		0.1897	0.1897		2,995.7056	2,995.7056	0.0574	0.0549	3,013.5076
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	1.26876	0.0137	0.1244	0.1045	7.5000e-004		9.4500e-003	9.4500e-003		9.4500e-003	9.4500e-003		149.2654	149.2654	2.8600e-003	2.7400e-003	150.1524
General Light Industry	42.8606	0.4622	4.2020	3.5297	0.0252		0.3194	0.3194		0.3194	0.3194		5,042.4266	5,042.4266	0.0967	0.0924	5,072.3912
Regional Shopping Center	0.353458	3.8100e-003	0.0347	0.0291	2.1000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003		41.5832	41.5832	8.0000e-004	7.6000e-004	41.8304
Retirement Community	13.0846	0.1411	1.2058	0.5131	7.7000e-003		0.0975	0.0975		0.0975	0.0975		1,539.3638	1,539.3638	0.0295	0.0282	1,548.5114
Single Family Housing	72.6495	0.7835	6.6952	2.8490	0.0427		0.5413	0.5413		0.5413	0.5413		8,546.9944	8,546.9944	0.1638	0.1567	8,597.7849
Total		1.8168	15.7874	8.5256	0.0991		1.2553	1.2553		1.2553	1.2553		19,820.1102	19,820.1102	0.3799	0.3634	19,937.8912

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	120.4860	2.2268	184.3422	8.3500e-003		1.0070	1.0070		1.0070	1.0070	0.0000	306.8464	306.8464	0.2190	0.0000	312.3216
Unmitigated	6,671.4025	129.8185	8,271.3997	14.5586		1,127.0507	1,127.0507		1,127.0507	1,127.0507	118,029.8556	49,938.6340	167,968.4896	109.3404	9.2839	173,468.6140

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	43.2614					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	116.6901					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,504.1786	127.0191	8,028.7020	14.5457		1,125.7006	1,125.7006		1,125.7006	1,125.7006	118,029.8556	49,500.0000	167,529.8556	108.9220	9.2839	173,019.5187
Landscaping	7.2724	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501		438.6340	438.6340	0.4185		449.0954
Total	6,671.4025	129.8185	8,271.3997	14.5586		1,127.0507	1,127.0507		1,127.0507	1,127.0507	118,029.8556	49,938.6340	167,968.4896	109.3404	9.2839	173,468.6140

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	8.6523					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	107.9788					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	3.8549	2.2268	184.3422	8.3500e-003		1.0070	1.0070		1.0070	1.0070		306.8464	306.8464	0.2190		312.3216
Total	120.4860	2.2268	184.3422	8.3500e-003		1.0070	1.0070		1.0070	1.0070	0.0000	306.8464	306.8464	0.2190	0.0000	312.3216

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

APPENDIX B

CALEEMOD PRINTOUT: FANITA RANCH OPERATION

WITHOUT SCHOOLS

Fanita Ranch Operation - San Diego County APCD Air District, Summer

Fanita Ranch Operation
San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,389.56	1000sqft	31.90	1,389,564.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,262.00	Dwelling Unit	256.30	2,271,600.00	3609
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Value changed to reflect the Fanita Ranch Specific Plan
- Vehicle Trips - based on TIA trip length and total daily VMT
- Area Mitigation -

Energy Mitigation - 2019 Title 24 is 7% more efficient than 2016 Title 24

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	1,389,560.00	1,389,564.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	409.74	256.30
tblLandUse	LotAcreage	1.38	1.50
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80

tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	4.04
tblVehicleTrips	ST_TR	22.75	8.62
tblVehicleTrips	ST_TR	1.32	0.04
tblVehicleTrips	ST_TR	49.97	10.68
tblVehicleTrips	ST_TR	2.03	1.90
tblVehicleTrips	ST_TR	9.91	4.04
tblVehicleTrips	SU_TR	6.07	4.04
tblVehicleTrips	SU_TR	16.74	8.62
tblVehicleTrips	SU_TR	0.68	0.04
tblVehicleTrips	SU_TR	25.24	10.68
tblVehicleTrips	SU_TR	1.95	1.90
tblVehicleTrips	SU_TR	8.62	4.04
tblVehicleTrips	WD_TR	6.59	4.05
tblVehicleTrips	WD_TR	1.89	8.62
tblVehicleTrips	WD_TR	6.97	0.04
tblVehicleTrips	WD_TR	42.70	10.68
tblVehicleTrips	WD_TR	2.40	1.90
tblVehicleTrips	WD_TR	9.52	4.05

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.7960	3,836.7960	1.1964	0.0000	3,866.7052
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.7960	3,836.7960	1.1964	0.0000	3,866.7052
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

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

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	6,762.6946	131.6369	8,387.6059	14.7608		1,142.7047	1,142.7047		1,142.7047	1,142.7047	119,668.3877	50,634.3562	170,302.7440	110.8603	9.4128	175,879.2723
Energy	1.9297	16.7511	8.9313	0.1053		1.3332	1.3332		1.3332	1.3332		21,051.1389	21,051.1389	0.4035	0.3859	21,176.2353
Mobile	20.3056	85.3145	318.6676	1.5122	183.3872	0.7137	184.1009	48.9949	0.6638	49.6587		155,063.2396	155,063.2396	6.8222		155,233.7948
Total	6,784.9299	233.7024	8,715.2049	16.3782	183.3872	1,144.7516	1,328.1388	48.9949	1,144.7017	1,193.6966	119,668.3877	226,748.7347	346,417.1224	118.0860	9.7988	352,289.3024

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	168.2227	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768	0.0000	447.1798	447.1798	0.4262	0.0000	457.8356
Energy	1.8416	15.9914	8.5608	0.1005		1.2724	1.2724		1.2724	1.2724		20,090.0241	20,090.0241	0.3851	0.3683	20,209.4091
Mobile	20.3056	85.3145	318.6676	1.5122	183.3872	0.7137	184.1009	48.9949	0.6638	49.6587		155,063.2396	155,063.2396	6.8222		155,233.7948
Total	190.3699	104.1603	574.6751	1.6257	183.3872	3.3628	186.7500	48.9949	3.3129	52.3078	0.0000	175,600.4435	175,600.4435	7.6335	0.3683	175,901.0395

	ROG	NOx	CO	SO2	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	97.19	55.43	93.41	90.07	0.00	99.71	85.94	0.00	99.71	95.62	100.00	22.56	49.31	93.54	96.24	50.07

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.452	3,766.452	1.1917		3,796.244
												9	9			5

Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

3.2 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

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

Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

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	20.3056	85.3145	318.6676	1.5122	183.3872	0.7137	184.1009	48.9949	0.6638	49.6587		155,063.2 396	155,063.2 396	6.8222		155,233.7 948
Unmitigated	20.3056	85.3145	318.6676	1.5122	183.3872	0.7137	184.1009	48.9949	0.6638	49.6587		155,063.2 396	155,063.2 396	6.8222		155,233.7 948

4.2 Trip Summary Information

	Unmitigated	Mitigated
Land Use	Annual VMT	Annual VMT
Apartments Low Rise	26,025,434	26,025,434
Apartments Low Rise	13,072,822	13,072,822
City Park	3,021,115	3,021,115
General Light Industry	240,761	240,761
Regional Shopping Center	2,239,212	2,239,212
Retirement Community	3,939,354	3,939,354
Single Family Housing	37,926,210	37,926,210
Total	86,464,906	86,464,906

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0
Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Regional Shopping Center	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Retirement Community	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

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	1.8416	15.9914	8.5608	0.1005		1.2724	1.2724		1.2724	1.2724		20,090.0241	20,090.0241	0.3851	0.3683	20,209.4091
NaturalGas Unmitigated	1.9297	16.7511	8.9313	0.1053		1.3332	1.3332		1.3332	1.3332		21,051.1389	21,051.1389	0.4035	0.3859	21,176.2353

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
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Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	13378.3	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735
Apartments Low Rise	26633.6	0.2872	2.4545	1.0445	0.0157		0.1985	0.1985		0.1985	0.1985		3,133.3680	3,133.3680	0.0601	0.0575	3,151.9881
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	44009.2	0.4746	4.3146	3.6243	0.0259		0.3279	0.3279		0.3279	0.3279		5,177.5535	5,177.5535	0.0992	0.0949	5,208.3212
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13685.9	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	80861.1	0.8720	7.4519	3.1710	0.0476		0.6025	0.6025		0.6025	0.6025		9,513.0679	9,513.0679	0.1823	0.1744	9,569.5993
Total		1.9297	16.7511	8.9313	0.1053		1.3332	1.3332		1.3332	1.3332		21,051.1389	21,051.1389	0.4035	0.3860	21,176.2353

Mitigated

Land Use	Natural Gas Use	kBTU/yr	lb/day										lb/day				
			ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O
Apartments Low Rise	12.7906	0.1379	1.1787	0.5016	7.5200e-003		0.0953	0.0953		0.0953	0.0953		1,504.7713	1,504.7713	0.0288	0.0276	1,513.7134
Apartments Low Rise	25.4635	0.2746	2.3466	0.9986	0.0150		0.1897	0.1897		0.1897	0.1897		2,995.7056	2,995.7056	0.0574	0.0549	3,013.5076
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	42.8606	0.4622	4.2020	3.5297	0.0252		0.3194	0.3194		0.3194	0.3194		5,042.4266	5,042.4266	0.0967	0.0924	5,072.3912
Regional Shopping Center	0.353458	3.8100e-003	0.0347	0.0291	2.1000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003		41.5832	41.5832	8.0000e-004	7.6000e-004	41.8304
Retirement Community	13.0846	0.1411	1.2058	0.5131	7.7000e-003		0.0975	0.0975		0.0975	0.0975		1,539.3638	1,539.3638	0.0295	0.0282	1,548.5114
Single Family Housing	76.2125	0.8219	7.0235	2.9887	0.0448		0.5679	0.5679		0.5679	0.5679		8,966.1736	8,966.1736	0.1719	0.1644	9,019.4551
Total		1.8416	15.9914	8.5608	0.1005		1.2724	1.2724		1.2724	1.2724		20,090.0241	20,090.0241	0.3851	0.3683	20,209.4091

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	168.2227	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768	0.0000	447.1798	447.1798	0.4262	0.0000	457.8356
Unmitigated	6,762.6946	131.6369	8,387.6059	14.7608		1,142.7047	1,142.7047		1,142.7047	1,142.7047	119,668.3877	50,634.3562	170,302.7440	110.8603	9.4128	175,879.2723

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	43.6409					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	117.1737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6,594.4719	128.7824	8,140.1593	14.7477		1,141.3279	1,141.3279		1,141.3279	1,141.3279	119,668.3877	50,187.1765	169,855.5642	110.4341	9.4128	175,421.4367
Landscaping	7.4081	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768		447.1798	447.1798	0.4262		457.8356
Total	6,762.6946	131.6369	8,387.6059	14.7608		1,142.7047	1,142.7047		1,142.7047	1,142.7047	119,668.3877	50,634.3562	170,302.7440	110.8603	9.4128	175,879.2723

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	43.6409					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	117.1737					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	7.4081	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768		447.1798	447.1798	0.4262		457.8356
Total	168.2227	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768	0.0000	447.1798	447.1798	0.4262	0.0000	457.8356

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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Fanita Ranch Operation - San Diego County APCD Air District, Summer

Fanita Ranch Operation
San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,389.56	1000sqft	31.90	1,389,564.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,262.00	Dwelling Unit	256.30	2,271,600.00	3609
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - 100% renewable energy
- Land Use - Value changed to reflect the Fanita Ranch Specific Plan
- Vehicle Trips - based on TIA trip length and total daily VMT
- Area Mitigation - low VOC paint

Energy Mitigation - 2019 Title 24 is 7% more efficient than 2016 Title 24

Water Mitigation -

Waste Mitigation -

Fleet Mix - from EMFAC for SD air basin 2035

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16

tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004

tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblLandUse	LandUseSquareFeet	1,389,560.00	1,389,564.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	409.74	256.30
tblLandUse	LotAcreage	1.38	1.50

tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	720.49	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblVehicleEF	HHD	0.41	0.03
tblVehicleEF	HHD	0.14	0.10
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	4,118.17	909.54
tblVehicleEF	HHD	1,512.65	1,140.56
tblVehicleEF	HHD	11.80	0.07
tblVehicleEF	LDA	4.2300e-003	7.6500e-004
tblVehicleEF	LDA	4.3850e-003	0.02
tblVehicleEF	LDA	176.13	192.39
tblVehicleEF	LDA	37.33	38.55
tblVehicleEF	LDT1	3.0420e-003	1.4080e-003
tblVehicleEF	LDT1	3.3850e-003	0.03
tblVehicleEF	LDT1	232.82	236.60
tblVehicleEF	LDT1	50.56	48.20
tblVehicleEF	LDT2	2.3870e-003	1.3510e-003
tblVehicleEF	LDT2	1.8590e-003	0.03
tblVehicleEF	LDT2	258.14	235.35
tblVehicleEF	LDT2	54.97	47.87
tblVehicleEF	LHD1	2.9300e-003	3.4250e-003
tblVehicleEF	LHD1	6.0480e-003	4.4990e-003
tblVehicleEF	LHD1	5.8730e-003	6.3550e-003
tblVehicleEF	LHD1	9.05	8.05
tblVehicleEF	LHD1	611.49	643.53
tblVehicleEF	LHD1	21.13	8.38
tblVehicleEF	LHD2	2.3040e-003	2.2940e-003
tblVehicleEF	LHD2	4.8200e-003	4.9830e-003
tblVehicleEF	LHD2	2.3670e-003	3.6980e-003
tblVehicleEF	LHD2	13.44	12.60
tblVehicleEF	LHD2	665.55	647.55

tblVehicleEF	LHD2	21.27	5.91
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	184.90	219.73
tblVehicleEF	MCY	42.31	58.02
tblVehicleEF	MDV	3.3710e-003	1.3140e-003
tblVehicleEF	MDV	3.7410e-003	0.03
tblVehicleEF	MDV	343.76	284.93
tblVehicleEF	MDV	72.70	57.01
tblVehicleEF	MH	6.7790e-003	4.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1,182.31	1,315.89
tblVehicleEF	MH	56.45	14.31
tblVehicleEF	MHD	0.02	3.8780e-003
tblVehicleEF	MHD	2.4120e-003	9.2700e-004
tblVehicleEF	MHD	0.03	8.2820e-003
tblVehicleEF	MHD	142.07	63.64
tblVehicleEF	MHD	1,162.62	937.84
tblVehicleEF	MHD	53.67	8.13
tblVehicleEF	OBUS	0.01	8.8730e-003
tblVehicleEF	OBUS	4.2710e-003	3.0810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	96.61	91.22
tblVehicleEF	OBUS	1,292.92	1,279.50
tblVehicleEF	OBUS	67.21	16.88
tblVehicleEF	SBUS	0.83	0.07
tblVehicleEF	SBUS	3.9020e-003	2.3430e-003
tblVehicleEF	SBUS	0.05	5.2140e-003
tblVehicleEF	SBUS	1,043.37	302.91
tblVehicleEF	SBUS	1,023.41	872.35
tblVehicleEF	SBUS	54.24	4.15
tblVehicleEF	UBUS	1.05	4.89

tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	1,747.06	1,847.16
tblVehicleEF	UBUS	139.43	12.31
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	3.07
tblVehicleTrips	ST_TR	22.75	6.56
tblVehicleTrips	ST_TR	1.32	0.03
tblVehicleTrips	ST_TR	49.97	8.13
tblVehicleTrips	ST_TR	2.03	1.44
tblVehicleTrips	ST_TR	9.91	3.07
tblVehicleTrips	SU_TR	6.07	3.07
tblVehicleTrips	SU_TR	16.74	6.56
tblVehicleTrips	SU_TR	0.68	0.03
tblVehicleTrips	SU_TR	25.24	8.13
tblVehicleTrips	SU_TR	1.95	1.44
tblVehicleTrips	SU_TR	8.62	3.07
tblVehicleTrips	WD_TR	6.59	3.08
tblVehicleTrips	WD_TR	1.89	6.57
tblVehicleTrips	WD_TR	6.97	0.03
tblVehicleTrips	WD_TR	42.70	8.14
tblVehicleTrips	WD_TR	2.40	1.45
tblVehicleTrips	WD_TR	9.52	3.08

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.7960	3,836.7960	1.1964	0.0000	3,866.7052
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.7960	3,836.7960	1.1964	0.0000	3,866.7052
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

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

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	6,762.6946	131.6369	8,387.6059	14.7608		1,142.7047	1,142.7047		1,142.7047	1,142.7047	119,668.3877	50,634.3562	170,302.7440	110.8603	9.4128	175,879.2723
Energy	1.9297	16.7511	8.9313	0.1053		1.3332	1.3332		1.3332	1.3332		21,051.1389	21,051.1389	0.4035	0.3859	21,176.2353
Mobile	15.8207	60.1892	242.6869	1.1460	139.6396	0.5834	140.2230	37.3367	0.5436	37.8803		117,392.9585	117,392.9585	5.0969		117,520.3818
Total	6,780.4450	208.5771	8,639.2241	16.0121	139.6396	1,144.6213	1,284.2609	37.3367	1,144.5815	1,181.9182	119,668.3877	189,078.4536	308,746.8414	116.3607	9.7988	314,575.8894

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	121.0823	2.2709	187.9685	8.5100e-003		1.0270	1.0270		1.0270	1.0270	0.0000	312.8615	312.8615	0.2231	0.0000	318.4400
Energy	1.8416	15.9914	8.5608	0.1005		1.2724	1.2724		1.2724	1.2724		20,090.0241	20,090.0241	0.3851	0.3683	20,209.4091
Mobile	15.8207	60.1892	242.6869	1.1460	139.6396	0.5834	140.2230	37.3367	0.5436	37.8803		117,392.9585	117,392.9585	5.0969		117,520.3818
Total	138.7446	78.4514	439.2162	1.2550	139.6396	2.8828	142.5223	37.3367	2.8429	40.1796	0.0000	137,795.8441	137,795.8441	5.7051	0.3683	138,048.2309

	ROG	NOx	CO	SO2	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	97.95	62.39	94.92	92.16	0.00	99.75	88.90	0.00	99.75	96.60	100.00	27.12	55.37	95.10	96.24	56.12

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Mitigated Construction Off-Site

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

Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

3.2 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

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	15.8207	60.1892	242.6869	1.1460	139.6396	0.5834	140.2230	37.3367	0.5436	37.8803		117,392.9	117,392.9	5.0969		117,520.3
												585	585			818
Unmitigated	15.8207	60.1892	242.6869	1.1460	139.6396	0.5834	140.2230	37.3367	0.5436	37.8803		117,392.9	117,392.9	5.0969		117,520.3
												585	585			818

4.2 Trip Summary Information

Land Use	Unmitigated Annual VMT	Mitigated Annual VMT
Apartments Low Rise	19,787,781	19,787,781
Apartments Low Rise	9,939,590	9,939,590
City Park	2,301,635	2,301,635
General Light Industry	180,571	180,571
Regional Shopping Center	1,706,066	1,706,066
Retirement Community	3,000,425	3,000,425
Single Family Housing	28,836,236	28,836,236
Total	65,752,303	65,752,303

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0
Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
City Park	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
General Light Industry	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

Regional Shopping Center	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Retirement Community	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Single Family Housing	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8416	15.9914	8.5608	0.1005		1.2724	1.2724		1.2724	1.2724		20,090.0241	20,090.0241	0.3851	0.3683	20,209.4091
NaturalGas Unmitigated	1.9297	16.7511	8.9313	0.1053		1.3332	1.3332		1.3332	1.3332		21,051.1389	21,051.1389	0.4035	0.3859	21,176.2353

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	13378.3	0.1443	1.2329	0.5246	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,573.9204	1,573.9204	0.0302	0.0289	1,583.2735

Apartments Low Rise	26633.6	0.2872	2.4545	1.0445	0.0157		0.1985	0.1985		0.1985	0.1985		3,133.3680	3,133.3680	0.0601	0.0575	3,151.9881
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	44009.2	0.4746	4.3146	3.6243	0.0259		0.3279	0.3279		0.3279	0.3279		5,177.5535	5,177.5535	0.0992	0.0949	5,208.3212
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	13685.9	0.1476	1.2613	0.5367	8.0500e-003		0.1020	0.1020		0.1020	0.1020		1,610.1025	1,610.1025	0.0309	0.0295	1,619.6706
Single Family Housing	80861.1	0.8720	7.4519	3.1710	0.0476		0.6025	0.6025		0.6025	0.6025		9,513.0679	9,513.0679	0.1823	0.1744	9,569.5993
Total		1.9297	16.7511	8.9313	0.1053		1.3332	1.3332		1.3332	1.3332		21,051.1389	21,051.1389	0.4035	0.3860	21,176.2353

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	12.7906	0.1379	1.1787	0.5016	7.5200e-003		0.0953	0.0953		0.0953	0.0953		1,504.7713	1,504.7713	0.0288	0.0276	1,513.7134
Apartments Low Rise	25.4635	0.2746	2.3466	0.9986	0.0150		0.1897	0.1897		0.1897	0.1897		2,995.7056	2,995.7056	0.0574	0.0549	3,013.5076
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	42.8606	0.4622	4.2020	3.5297	0.0252		0.3194	0.3194		0.3194	0.3194		5,042.4266	5,042.4266	0.0967	0.0924	5,072.3912
Regional Shopping Center	0.353458	3.8100e-003	0.0347	0.0291	2.1000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003		41.5832	41.5832	8.0000e-004	7.6000e-004	41.8304
Retirement Community	13.0846	0.1411	1.2058	0.5131	7.7000e-003		0.0975	0.0975		0.0975	0.0975		1,539.3638	1,539.3638	0.0295	0.0282	1,548.5114
Single Family Housing	76.2125	0.8219	7.0235	2.9887	0.0448		0.5679	0.5679		0.5679	0.5679		8,966.1736	8,966.1736	0.1719	0.1644	9,019.4551
Total		1.8416	15.9914	8.5608	0.1005		1.2724	1.2724		1.2724	1.2724		20,090.0241	20,090.0241	0.3851	0.3683	20,209.4091

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	121.0823	2.2709	187.9685	8.5100e-003		1.0270	1.0270		1.0270	1.0270	0.0000	312.8615	312.8615	0.2231	0.0000	318.4400
Unmitigated	6,762.6946	131.6369	8,387.6059	14.7608		1,142.7047	1,142.7047		1,142.7047	1,142.7047	119,668.3877	50,634.3562	170,302.7440	110.8603	9.4128	175,879.2723

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	43.6409					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	117.1737					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Hearth	6,594.4719	128.7824	8,140.1593	14.7477		1,141.3279	1,141.3279		1,141.3279	1,141.3279	119,668.3877	50,187.1765	169,855.5642	110.4341	9.4128	175,421.4367
Landscaping	7.4081	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768		447.1798	447.1798	0.4262		457.8356
Total	6,762.6946	131.6369	8,387.6059	14.7608		1,142.7047	1,142.7047		1,142.7047	1,142.7047	119,668.3877	50,634.3562	170,302.7440	110.8603	9.4128	175,879.2723

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	8.7282					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	108.4262					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	3.9279	2.2709	187.9685	8.5100e-003		1.0270	1.0270		1.0270	1.0270			312.8615	312.8615	0.2231	318.4400
Total	121.0823	2.2709	187.9685	8.5100e-003		1.0270	1.0270		1.0270	1.0270	0.0000	312.8615	312.8615	0.2231	0.0000	318.4400

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

APPENDIX B

CALEEMOD PRINTOUT: OPERATION WITH SCHOOLS:

MITIGATED PROJECT

Fanita Ranch Operation - San Diego County APCD Air District, Summer

Fanita Ranch Operation
San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	1,000.00	Student	15.00	83,603.37	0
General Light Industry	1,389.56	1000sqft	31.90	1,389,560.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,203.00	Dwelling Unit	241.30	2,165,400.00	3441
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	29.6	CH4 Intensity (lb/MW hr)	0.004	N2O Intensity (lb/MW hr)	0.001

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Santee CCA in combination with SDG&E for year 2035 (SDG&E Renewable Portfolio = 60%), overall renewable generation for

Land Use - Value changed to reflect the Fanita Ranch Specific Plan.

Vehicle Trips - based on TIA trip length and total daily VMT

Woodstoves - No hearths

Energy Use - All electric homes increased electrical usage an natural gas usage set at zero.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblEnergyUse	NT24E	3,172.76	3,490.04
tblEnergyUse	NT24E	3,172.76	3,490.04
tblEnergyUse	NT24E	6,155.97	6,771.57
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	T24E	260.86	300.04
tblEnergyUse	T24E	260.86	300.04
tblEnergyUse	T24E	331.07	380.75
tblEnergyUse	T24NG	7,045.49	0.00
tblEnergyUse	T24NG	7,045.49	0.00
tblEnergyUse	T24NG	19,206.92	0.00
tblFireplaces	NumberGas	715.55	0.00
tblFireplaces	NumberGas	244.75	0.00
tblFireplaces	NumberGas	661.65	0.00
tblFireplaces	NumberNoFireplace	130.10	0.00
tblFireplaces	NumberNoFireplace	44.50	0.00
tblFireplaces	NumberNoFireplace	120.30	0.00
tblFireplaces	NumberWood	455.35	0.00
tblFireplaces	NumberWood	155.75	0.00
tblFireplaces	NumberWood	421.05	0.00
tblFleetMix	HHD	0.03	0.02

tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02

tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MCY	5.5480e-003	5.5080e-003
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MDV	0.10	0.11
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MH	7.0900e-004	9.1600e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02

tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
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tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	OBUS	1.9440e-003	1.0690e-003
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
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tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
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tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblLandUse	LotAcreage	1.92	15.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	390.58	241.30
tblLandUse	LotAcreage	1.38	1.50

tblProjectCharacteristics	CH4IntensityFactor	0.029	0.004
tblProjectCharacteristics	CO2IntensityFactor	720.49	29.6
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblSequestration	NumberOfNewTrees	0.00	15,475.00
tblVehicleEF	HHD	0.41	0.03
tblVehicleEF	HHD	0.14	0.10
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	4,118.17	909.54
tblVehicleEF	HHD	1,512.65	1,140.56
tblVehicleEF	HHD	11.80	0.07
tblVehicleEF	LDA	4.2300e-003	7.6500e-004
tblVehicleEF	LDA	4.3850e-003	0.02
tblVehicleEF	LDA	176.13	192.39
tblVehicleEF	LDA	37.33	38.55
tblVehicleEF	LDT1	3.0420e-003	1.4080e-003
tblVehicleEF	LDT1	3.3850e-003	0.03
tblVehicleEF	LDT1	232.82	236.60
tblVehicleEF	LDT1	50.56	48.20
tblVehicleEF	LDT2	2.3870e-003	1.3510e-003
tblVehicleEF	LDT2	1.8590e-003	0.03
tblVehicleEF	LDT2	258.14	235.35
tblVehicleEF	LDT2	54.97	47.87
tblVehicleEF	LHD1	2.9300e-003	3.4250e-003
tblVehicleEF	LHD1	6.0480e-003	4.4990e-003
tblVehicleEF	LHD1	5.8730e-003	6.3550e-003
tblVehicleEF	LHD1	9.05	8.05
tblVehicleEF	LHD1	611.49	643.53
tblVehicleEF	LHD1	21.13	8.38
tblVehicleEF	LHD2	2.3040e-003	2.2940e-003
tblVehicleEF	LHD2	4.8200e-003	4.9830e-003
tblVehicleEF	LHD2	2.3670e-003	3.6980e-003
tblVehicleEF	LHD2	13.44	12.60

tblVehicleEF	LHD2	665.55	647.55
tblVehicleEF	LHD2	21.27	5.91
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	184.90	219.73
tblVehicleEF	MCY	42.31	58.02
tblVehicleEF	MDV	3.3710e-003	1.3140e-003
tblVehicleEF	MDV	3.7410e-003	0.03
tblVehicleEF	MDV	343.76	284.93
tblVehicleEF	MDV	72.70	57.01
tblVehicleEF	MH	6.7790e-003	4.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1,182.31	1,315.89
tblVehicleEF	MH	56.45	14.31
tblVehicleEF	MHD	0.02	3.8780e-003
tblVehicleEF	MHD	2.4120e-003	9.2700e-004
tblVehicleEF	MHD	0.03	8.2820e-003
tblVehicleEF	MHD	142.07	63.64
tblVehicleEF	MHD	1,162.62	937.84
tblVehicleEF	MHD	53.67	8.13
tblVehicleEF	OBUS	0.01	8.8730e-003
tblVehicleEF	OBUS	4.2710e-003	3.0810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	96.61	91.22
tblVehicleEF	OBUS	1,292.92	1,279.50
tblVehicleEF	OBUS	67.21	16.88
tblVehicleEF	SBUS	0.83	0.07
tblVehicleEF	SBUS	3.9020e-003	2.3430e-003
tblVehicleEF	SBUS	0.05	5.2140e-003
tblVehicleEF	SBUS	1,043.37	302.91
tblVehicleEF	SBUS	1,023.41	872.35
tblVehicleEF	SBUS	54.24	4.15

tblVehicleEF	UBUS	1.05	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	1,747.06	1,847.16
tblVehicleEF	UBUS	139.43	12.31
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.30
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.30
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.30
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	25.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80
tblVehicleTrips	HW_TL	10.80	20.40

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	63.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	2.92
tblVehicleTrips	ST_TR	22.75	6.25
tblVehicleTrips	ST_TR	1.32	0.03
tblVehicleTrips	ST_TR	49.97	7.74
tblVehicleTrips	ST_TR	2.03	1.38
tblVehicleTrips	ST_TR	9.91	2.92
tblVehicleTrips	SU_TR	6.07	2.92
tblVehicleTrips	SU_TR	16.74	6.25
tblVehicleTrips	SU_TR	0.68	0.03
tblVehicleTrips	SU_TR	25.24	7.74
tblVehicleTrips	SU_TR	1.95	1.38
tblVehicleTrips	SU_TR	8.62	2.92
tblVehicleTrips	WD_TR	6.59	2.93
tblVehicleTrips	WD_TR	1.89	6.25
tblVehicleTrips	WD_TR	1.29	0.50
tblVehicleTrips	WD_TR	6.97	0.03
tblVehicleTrips	WD_TR	42.70	7.75
tblVehicleTrips	WD_TR	2.40	1.38

tblVehicleTrips	WD_TR	9.52	2.93
tblWoodstoves	NumberCatalytic	65.05	0.00
tblWoodstoves	NumberCatalytic	22.25	0.00
tblWoodstoves	NumberCatalytic	60.15	0.00
tblWoodstoves	NumberNoncatalytic	65.05	0.00
tblWoodstoves	NumberNoncatalytic	22.25	0.00
tblWoodstoves	NumberNoncatalytic	60.15	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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.088	3,923.088	1.1967	0.0000	3,953.005
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.796	3,836.796	1.1964	0.0000	3,866.705
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.088	3,923.088	1.1967	0.0000	3,953.005

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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.088	3,923.088	1.1967	0.0000	3,953.005
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.796	3,836.796	1.1964	0.0000	3,866.705

Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	167.2238	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501	0.0000	438.6340	438.6340	0.4185	0.0000	449.0954
Energy	0.4932	4.4835	3.7661	0.0269		0.3408	0.3408		0.3408	0.3408		5,380.1920	5,380.1920	0.1031	0.0986	5,412.1638
Mobile	15.3506	58.4340	234.1894	1.1045	134.5031	0.5626	135.0657	35.9633	0.5242	36.4875		113,142.7526	113,142.7526	4.9166		113,265.6674
Total	183.0676	65.7169	480.6533	1.1443	134.5031	2.2535	136.7566	35.9633	2.2151	38.1784	0.0000	118,961.5786	118,961.5786	5.4382	0.0986	119,126.9265

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	120.4859	2.2268	184.3422	8.3500e-003		1.0070	1.0070		1.0070	1.0070	0.0000	306.8464	306.8464	0.2190	0.0000	312.3216
Energy	0.4797	4.3611	3.6633	0.0262		0.3314	0.3314		0.3314	0.3314		5,233.2606	5,233.2606	0.1003	0.0959	5,264.3593
Mobile	15.3506	58.4340	234.1894	1.1045	134.5031	0.5626	135.0657	35.9633	0.5242	36.4875		113,142.7526	113,142.7526	4.9166		113,265.6674
Total	136.3162	65.0219	422.1949	1.1390	134.5031	1.9011	136.4042	35.9633	1.8626	37.8260	0.0000	118,682.8596	118,682.8596	5.2359	0.0959	118,842.3483

	ROG	NOx	CO	SO2	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	25.54	1.06	12.16	0.46	0.00	15.64	0.26	0.00	15.91	0.92	0.00	0.23	0.23	3.72	2.74	0.24

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

3.2 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

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

Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

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	15.3506	58.4340	234.1894	1.1045	134.5031	0.5626	135.0657	35.9633	0.5242	36.4875		113,142.7526	113,142.7526	4.9166		113,265.6674
Unmitigated	15.3506	58.4340	234.1894	1.1045	134.5031	0.5626	135.0657	35.9633	0.5242	36.4875		113,142.7526	113,142.7526	4.9166		113,265.6674

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,537.38	2,528.72	2528.72	18,823,196	18,823,196
Apartments Low Rise	1,274.55	1,270.20	1270.20	9,455,070	9,455,070
City Park	491.25	491.25	491.25	2,190,484	2,190,484
Elementary School	500.00	0.00	0.00	1,469,000	1,469,000
General Light Industry	41.69	41.69	41.69	180,571	180,571
Regional Shopping Center	465.00	464.40	464.40	1,624,297	1,624,297
Retirement Community	614.10	614.10	614.10	2,861,215	2,861,215
Single Family Housing	3,524.79	3,512.76	3512.76	26,148,158	26,148,158
Total	9,448.76	8,923.12	8,923.12	62,751,989	62,751,989

4.3 Trip Type Information

Miles	Trip %	Trip Purpose %
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Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
Elementary School	11.30	11.30	11.30	65.00	30.00	5.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0
Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
City Park	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Elementary School	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
General Light Industry	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Regional Shopping Center	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Retirement Community	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Single Family Housing	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
NaturalGas Mitigated	0.4797	4.3611	3.6633	0.0262		0.3314	0.3314		0.3314	0.3314		5,233.2606	5,233.2606	0.1003	0.0959	5,264.3593
NaturalGas Unmitigated	0.4932	4.4835	3.7661	0.0269		0.3408	0.3408		0.3408	0.3408		5,380.1920	5,380.1920	0.1031	0.0986	5,412.1638

5.2 Energy by Land Use - NaturalGas Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	1355.98	0.0146	0.1329	0.1117	8.0000e-004		0.0101	0.0101		0.0101	0.0101		159.5268	159.5268	3.0600e-003	2.9200e-003	160.4748
General Light Industry	44009.1	0.4746	4.3146	3.6243	0.0259		0.3279	0.3279		0.3279	0.3279		5,177.5386	5,177.5386	0.0992	0.0949	5,208.3062
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4932	4.4835	3.7661	0.0269		0.3407	0.3407		0.3407	0.3407		5,380.1920	5,380.1920	0.1031	0.0986	5,412.1638

Mitigated

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

Apartments Low Rise	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	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	1.26876	0.0137	0.1244	0.1045	7.5000e-004	9.4500e-003	9.4500e-003	9.4500e-003	9.4500e-003	9.4500e-003	149.2654	149.2654	2.8600e-003	2.7400e-003	150.1524	
General Light Industry	42.8605	0.4622	4.2020	3.5297	0.0252	0.3194	0.3194	0.3194	0.3194	0.3194	5,042.4120	5,042.4120	0.0967	0.0924	5,072.3766	
Regional Shopping Center	0.353458	3.8100e-003	0.0347	0.0291	2.1000e-004	2.6300e-003	2.6300e-003	2.6300e-003	2.6300e-003	2.6300e-003	41.5832	41.5832	8.0000e-004	7.6000e-004	41.8304	
Retirement Community	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Single Family Housing	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		0.4797	4.3611	3.6633	0.0262	0.3314	0.3314	0.3314	0.3314	0.3314	5,233.2606	5,233.2606	0.1003	0.0959	5,264.3593	

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- 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
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	120.4859	2.2268	184.3422	8.3500e-003		1.0070	1.0070		1.0070	1.0070	0.0000	306.8464	306.8464	0.2190	0.0000	312.3216

Unmitigated	167.2238	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501	0.0000	438.6340	438.6340	0.4185	0.0000	449.0954
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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	43.2614					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	116.6901					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	7.2724	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501			438.6340	438.6340	0.4185	449.0954
Total	167.2238	2.7994	242.6977	0.0129		1.3501	1.3501		1.3501	1.3501	0.0000	438.6340	438.6340	0.4185	0.0000	449.0954

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	8.6523					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	107.9788					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	3.8549	2.2268	184.3422	8.3500e-003		1.0070	1.0070		1.0070	1.0070			306.8464	306.8464	0.2190	312.3216
Total	120.4859	2.2268	184.3422	8.3500e-003		1.0070	1.0070		1.0070	1.0070	0.0000	306.8464	306.8464	0.2190	0.0000	312.3216

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

APPENDIX B

**CALEEMOD PRINTOUT: OPERATION WITHOUT SCHOOLS:
MITIGATED PROJECT**

Fanita Ranch Operation - San Diego County APCD Air District, Summer

Fanita Ranch Operation
San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1,389.56	1000sqft	31.90	1,389,564.00	0
City Park	78.60	Acre	78.60	3,423,816.00	0
Apartments Low Rise	866.00	Dwelling Unit	67.00	866,000.00	2477
Apartments Low Rise	435.00	Dwelling Unit	35.00	435,000.00	1244
Retirement Community	445.00	Dwelling Unit	30.90	445,000.00	1273
Single Family Housing	1,262.00	Dwelling Unit	256.30	2,271,600.00	3609
Regional Shopping Center	60.00	1000sqft	1.50	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	29.6	CH4 Intensity (lb/MW hr)	0.004	N2O Intensity (lb/MW hr)	0.001

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Santee CCA and SDG&E emission factors for year 2035

Land Use - Value changed to reflect the Fanita Ranch Specific Plan

Vehicle Trips - based on TIA trip length and total daily VMT

Woodstoves - all electric homes

Energy Use - All Electric homes

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblEnergyUse	NT24E	3,172.76	3,490.04
tblEnergyUse	NT24E	3,172.76	3,490.04
tblEnergyUse	NT24E	6,155.97	6,771.54
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	NT24NG	4,180.00	0.00
tblEnergyUse	T24E	260.86	300.04
tblEnergyUse	T24E	260.86	300.04
tblEnergyUse	T24E	331.07	380.75
tblEnergyUse	T24NG	7,045.49	0.00
tblEnergyUse	T24NG	7,045.49	0.00
tblEnergyUse	T24NG	19,206.92	0.00
tblFireplaces	NumberGas	715.55	0.00
tblFireplaces	NumberGas	244.75	0.00
tblFireplaces	NumberGas	694.10	0.00
tblFireplaces	NumberNoFireplace	130.10	0.00
tblFireplaces	NumberNoFireplace	44.50	0.00
tblFireplaces	NumberNoFireplace	126.20	0.00
tblFireplaces	NumberWood	455.35	0.00
tblFireplaces	NumberWood	155.75	0.00
tblFireplaces	NumberWood	441.70	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02

tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDA	0.62	0.59
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LDT2	0.18	0.16
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003
tblFleetMix	LHD2	5.2820e-003	6.6460e-003

tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	SBUS	8.0000e-004	8.2400e-004
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblFleetMix	UBUS	1.6320e-003	2.1580e-003
tblLandUse	LandUseSquareFeet	1,389,560.00	1,389,564.00
tblLandUse	LotAcreage	54.13	67.00
tblLandUse	LotAcreage	27.19	35.00
tblLandUse	LotAcreage	89.00	30.90
tblLandUse	LotAcreage	409.74	256.30
tblLandUse	LotAcreage	1.38	1.50
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.004
tblProjectCharacteristics	CO2IntensityFactor	720.49	29.6
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblSequestration	NumberOfNewTrees	0.00	15,475.00
tblVehicleEF	HHD	0.41	0.03
tblVehicleEF	HHD	0.14	0.10
tblVehicleEF	HHD	0.05	0.00
tblVehicleEF	HHD	4,118.17	909.54
tblVehicleEF	HHD	1,512.65	1,140.56
tblVehicleEF	HHD	11.80	0.07
tblVehicleEF	LDA	4.2300e-003	7.6500e-004
tblVehicleEF	LDA	4.3850e-003	0.02
tblVehicleEF	LDA	176.13	192.39
tblVehicleEF	LDA	37.33	38.55

tblVehicleEF	LDT1	3.0420e-003	1.4080e-003
tblVehicleEF	LDT1	3.3850e-003	0.03
tblVehicleEF	LDT1	232.82	236.60
tblVehicleEF	LDT1	50.56	48.20
tblVehicleEF	LDT2	2.3870e-003	1.3510e-003
tblVehicleEF	LDT2	1.8590e-003	0.03
tblVehicleEF	LDT2	258.14	235.35
tblVehicleEF	LDT2	54.97	47.87
tblVehicleEF	LHD1	2.9300e-003	3.4250e-003
tblVehicleEF	LHD1	6.0480e-003	4.4990e-003
tblVehicleEF	LHD1	5.8730e-003	6.3550e-003
tblVehicleEF	LHD1	9.05	8.05
tblVehicleEF	LHD1	611.49	643.53
tblVehicleEF	LHD1	21.13	8.38
tblVehicleEF	LHD2	2.3040e-003	2.2940e-003
tblVehicleEF	LHD2	4.8200e-003	4.9830e-003
tblVehicleEF	LHD2	2.3670e-003	3.6980e-003
tblVehicleEF	LHD2	13.44	12.60
tblVehicleEF	LHD2	665.55	647.55
tblVehicleEF	LHD2	21.27	5.91
tblVehicleEF	MCY	0.50	0.35
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	184.90	219.73
tblVehicleEF	MCY	42.31	58.02
tblVehicleEF	MDV	3.3710e-003	1.3140e-003
tblVehicleEF	MDV	3.7410e-003	0.03
tblVehicleEF	MDV	343.76	284.93
tblVehicleEF	MDV	72.70	57.01
tblVehicleEF	MH	6.7790e-003	4.6040e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1,182.31	1,315.89
tblVehicleEF	MH	56.45	14.31

tblVehicleEF	MHD	0.02	3.8780e-003
tblVehicleEF	MHD	2.4120e-003	9.2700e-004
tblVehicleEF	MHD	0.03	8.2820e-003
tblVehicleEF	MHD	142.07	63.64
tblVehicleEF	MHD	1,162.62	937.84
tblVehicleEF	MHD	53.67	8.13
tblVehicleEF	OBUS	0.01	8.8730e-003
tblVehicleEF	OBUS	4.2710e-003	3.0810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	96.61	91.22
tblVehicleEF	OBUS	1,292.92	1,279.50
tblVehicleEF	OBUS	67.21	16.88
tblVehicleEF	SBUS	0.83	0.07
tblVehicleEF	SBUS	3.9020e-003	2.3430e-003
tblVehicleEF	SBUS	0.05	5.2140e-003
tblVehicleEF	SBUS	1,043.37	302.91
tblVehicleEF	SBUS	1,023.41	872.35
tblVehicleEF	SBUS	54.24	4.15
tblVehicleEF	UBUS	1.05	4.89
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	1,747.06	1,847.16
tblVehicleEF	UBUS	139.43	12.31
tblVehicleTrips	CC_TL	7.30	12.25
tblVehicleTrips	CC_TL	7.30	11.90
tblVehicleTrips	CC_TL	7.30	9.60
tblVehicleTrips	CNW_TL	7.30	12.25
tblVehicleTrips	CNW_TL	7.30	11.90
tblVehicleTrips	CNW_TL	7.30	9.60
tblVehicleTrips	CW_TL	9.50	12.25
tblVehicleTrips	CW_TL	9.50	11.90
tblVehicleTrips	CW_TL	9.50	9.60
tblVehicleTrips	DV_TP	11.00	0.00

tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HO_TL	7.50	12.80
tblVehicleTrips	HO_TL	7.50	20.40
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HS_TL	7.30	12.80
tblVehicleTrips	HS_TL	7.30	20.40
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	HW_TL	10.80	12.80
tblVehicleTrips	HW_TL	10.80	20.40
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	7.16	3.07
tblVehicleTrips	ST_TR	22.75	6.56
tblVehicleTrips	ST_TR	1.32	0.03
tblVehicleTrips	ST_TR	49.97	8.13
tblVehicleTrips	ST_TR	2.03	1.44
tblVehicleTrips	ST_TR	9.91	3.07

tblVehicleTrips	SU_TR	6.07	3.07
tblVehicleTrips	SU_TR	16.74	6.56
tblVehicleTrips	SU_TR	0.68	0.03
tblVehicleTrips	SU_TR	25.24	8.13
tblVehicleTrips	SU_TR	1.95	1.44
tblVehicleTrips	SU_TR	8.62	3.07
tblVehicleTrips	WD_TR	6.59	3.08
tblVehicleTrips	WD_TR	1.89	6.57
tblVehicleTrips	WD_TR	6.97	0.03
tblVehicleTrips	WD_TR	42.70	8.14
tblVehicleTrips	WD_TR	2.40	1.45
tblVehicleTrips	WD_TR	9.52	3.08
tblWoodstoves	NumberCatalytic	65.05	0.00
tblWoodstoves	NumberCatalytic	22.25	0.00
tblWoodstoves	NumberCatalytic	63.10	0.00
tblWoodstoves	NumberNoncatalytic	65.05	0.00
tblWoodstoves	NumberNoncatalytic	22.25	0.00
tblWoodstoves	NumberNoncatalytic	63.10	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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.088	3,923.088	1.1967	0.0000	3,953.005
												8	8			5
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.796	3,836.796	1.1964	0.0000	3,866.705
												0	0			2

Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
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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					
2019	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055
2020	4.1425	42.4618	22.0239	0.0395	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	3,836.7960	3,836.7960	1.1964	0.0000	3,866.7052
Maximum	4.4057	45.6220	22.6200	0.0396	18.2141	2.3914	20.6055	9.9699	2.2001	12.1700	0.0000	3,923.0888	3,923.0888	1.1967	0.0000	3,953.0055

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

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	168.2227	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768	0.0000	447.1798	447.1798	0.4262	0.0000	457.8356
Energy	0.4786	4.3506	3.6545	0.0261		0.3306	0.3306		0.3306	0.3306		5,220.6801	5,220.6801	0.1001	0.0957	5,251.7039
Mobile	15.8207	60.1892	242.6869	1.1460	139.6396	0.5834	140.2230	37.3367	0.5436	37.8803		117,392.9585	117,392.9585	5.0969		117,520.3818
Total	184.5220	67.3942	493.7880	1.1852	139.6396	2.2908	141.9304	37.3367	2.2509	39.5877	0.0000	123,060.8183	123,060.8183	5.6232	0.0957	123,229.9214

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	121.0823	2.2709	187.9685	8.5100e-003		1.0270	1.0270		1.0270	1.0270	0.0000	312.8615	312.8615	0.2231	0.0000	318.4400
Energy	0.4660	4.2367	3.5588	0.0254		0.3220	0.3220		0.3220	0.3220		5,084.0098	5,084.0098	0.0974	0.0932	5,114.2215
Mobile	15.8207	60.1892	242.6869	1.1460	139.6396	0.5834	140.2230	37.3367	0.5436	37.8803		117,392.9585	117,392.9585	5.0969		117,520.3818
Total	137.3690	66.6967	434.2142	1.1799	139.6396	1.9324	141.5720	37.3367	1.8925	39.2293	0.0000	122,789.8298	122,789.8298	5.4175	0.0932	122,953.0433

	ROG	NOx	CO	SO2	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	25.55	1.03	12.06	0.45	0.00	15.65	0.25	0.00	15.92	0.91	0.00	0.22	0.22	3.66	2.61	0.22

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/11/2019	7/24/2020	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

Unmitigated Construction Off-Site

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

Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917			3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.4529	3,766.4529	1.1917			3,796.2445

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003			156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003			156.7610

3.2 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000

Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
Total	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077

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	15.8207	60.1892	242.6869	1.1460	139.6396	0.5834	140.2230	37.3367	0.5436	37.8803		117,392.9585	117,392.9585	5.0969		117,520.3818
Unmitigated	15.8207	60.1892	242.6869	1.1460	139.6396	0.5834	140.2230	37.3367	0.5436	37.8803		117,392.9585	117,392.9585	5.0969		117,520.3818

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,667.28	2,658.62	2658.62	19,787,781	19,787,781
Apartments Low Rise	1,339.80	1,335.45	1335.45	9,939,590	9,939,590
City Park	516.40	515.62	515.62	2,301,635	2,301,635
General Light Industry	41.69	41.69	41.69	180,571	180,571
Regional Shopping Center	488.40	487.80	487.80	1,706,066	1,706,066
Retirement Community	645.25	640.80	640.80	3,000,425	3,000,425
Single Family Housing	3,886.96	3,874.34	3874.34	28,836,236	28,836,236
Total	9,585.78	9,554.31	9,554.31	65,752,303	65,752,303

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
Apartments Low Rise	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0
City Park	12.25	12.25	12.25	33.00	48.00	19.00	100	0	0
General Light Industry	11.90	11.90	11.90	59.00	28.00	13.00	100	0	0
Regional Shopping Center	9.60	9.60	9.60	16.30	64.70	19.00	100	0	0
Retirement Community	12.80	12.80	12.80	41.60	18.80	39.60	100	0	0
Single Family Housing	20.40	20.40	20.40	41.60	18.80	39.60	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
City Park	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
General Light Industry	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Regional Shopping Center	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Retirement Community	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916
Single Family Housing	0.591559	0.058317	0.163865	0.107726	0.023123	0.006646	0.016556	0.021732	0.001069	0.002158	0.005508	0.000824	0.000916

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4660	4.2367	3.5588	0.0254		0.3220	0.3220		0.3220	0.3220		5,084.0098	5,084.0098	0.0974	0.0932	5,114.2215
NaturalGas Unmitigated	0.4786	4.3506	3.6545	0.0261		0.3306	0.3306		0.3306	0.3306		5,220.6801	5,220.6801	0.1001	0.0957	5,251.7039

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	44009.2	0.4746	4.3146	3.6243	0.0259		0.3279	0.3279		0.3279	0.3279		5,177.5535	5,177.5535	0.0992	0.0949	5,208.3212
Regional Shopping Center	366.575	3.9500e-003	0.0359	0.0302	2.2000e-004		2.7300e-003	2.7300e-003		2.7300e-003	2.7300e-003		43.1265	43.1265	8.3000e-004	7.9000e-004	43.3828
Retirement Community	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Single Family Housing	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total		0.4786	4.3506	3.6545	0.0261		0.3306	0.3306		0.3306	0.3306		5,220.6800	5,220.6800	0.1001	0.0957	5,251.7039

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	42.8606	0.4622	4.2020	3.5297	0.0252		0.3194	0.3194		0.3194	0.3194		5,042.4266	5,042.4266	0.0967	0.0924	5,072.3912
Regional Shopping Center	0.353458	3.8100e-003	0.0347	0.0291	2.1000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003		41.5832	41.5832	8.0000e-004	7.6000e-004	41.8304
Retirement Community	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.4660	4.2367	3.5588	0.0254		0.3220	0.3220		0.3220	0.3220		5,084.0098	5,084.0098	0.0975	0.0932	5,114.2215

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- 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
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	121.0823	2.2709	187.9685	8.5100e-003		1.0270	1.0270		1.0270	1.0270	0.0000	312.8615	312.8615	0.2231	0.0000	318.4400
Unmitigated	168.2227	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768	0.0000	447.1798	447.1798	0.4262	0.0000	457.8356

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	43.6409					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	117.1737					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	7.4081	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768		447.1798	447.1798	0.4262		457.8356
Total	168.2227	2.8544	247.4467	0.0131		1.3768	1.3768		1.3768	1.3768	0.0000	447.1798	447.1798	0.4262	0.0000	457.8356

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
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SubCategory	lb/day								lb/day									
Architectural Coating	8.7282					0.0000	0.0000			0.0000	0.0000			0.0000	0.0000			
Consumer Products	108.4262					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			
Landscaping	3.9279	2.2709	187.9685	8.5100e-003		1.0270	1.0270			1.0270	1.0270		312.8615	312.8615	0.2231			
Total	121.0823	2.2709	187.9685	8.5100e-003		1.0270	1.0270			1.0270	1.0270		0.0000	312.8615	312.8615	0.2231	0.0000	318.4400

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

APPENDIX C

INTEGRATING THE FANITA RANCH PROJECT TRANSPORTATION IMPACT ANALYSIS INTO THE CALIFORNIA EMISSIONS ESTIMATOR MODEL (CALEEMOD)



MEMORANDUM

DATE: May 19, 2020

TO: City of Santee

FROM: Michael Hendrix

SUBJECT: Integrating the Fanita Ranch Project Transportation Impact Analysis into the California Emissions Estimator Model (CalEEMod) (LSA Project No. HRS1601)

Mobile sources for the Fanita Ranch Project (Project) would primarily be motor vehicles (automobiles and light-duty trucks) traveling to and from the proposed land uses and would primarily include future residents. The anticipated project trip generation, including the trip rates, total trips and total vehicle miles traveled (VMT), are based on the project’s Transportation Impact Analysis prepared by Linscott, Law and Greenspan, Engineers, Inc. (LLG 2020). The California Emission Estimator Model (CalEEMod) was used to calculate the emissions resulting from on-road mobile sources associated with residents as well as workers, customers, and delivery vehicles traveling to and from the proposed land use types. LSA modified the default vehicle trip rates, trip lengths, and vehicle trip types in CalEEMod to match the VMT calculations provided by LLG in the Transportation Impact Analysis. The following text describes how the CalEEMod defaults were modified.

Default trip generation rates and trip lengths included in CalEEMod for each analyzed proposed project land use in the buildout scenario were adjusted to match the average weekday trip rates and total weekday VMT data (243,266 VMT daily for the Preferred Land Use Plan with Schools and 249,124 VMT daily for the Land Use Plan without Schools, discussed in detail below) provided in the project’s VMT Evaluation (LLG 2020). In addition, Saturday and Sunday trip rates for the proposed project land uses were adjusted in proportion to the CalEEMod default trips rates and the project’s assumed weekday trip rate (LLG 2020). In determining total trips associated with the project, LLG included reductions associated with pass-by trips for the school (in the Preferred Land Use Plan with School) and local commercial, and a broad internal capture rate for the project. By contrast, CalEEMod factors in pass-by trips by adjusting the trip lengths discussed below. Table A depicts the comparison with the CalEEMod default and assumed project trip rates.

Table A: CalEEMod Default Trip Rates and Assumed Project Trip Rates

Land Use Type	Size Metric	CalEEMod Default Trip Rates	Fanita Ranch Project Trip Rates			
		Weekday Trip Rate	Weekday Trip Rate	Pass-thru rate	Internal Capture	Net Trip Rate
Residential Uses						
Village Center Mixed Use: Multifamily Residential	Dwelling Unit	6.59	8.00	0%	8.5%	7.32

Table A: CalEEMod Default Trip Rates and Assumed Project Trip Rates

Land Use Type	Size Metric	CalEEMod Default Trip Rates	Fanita Ranch Project Trip Rates			
		Weekday Trip Rate	Weekday Trip Rate	Pass-thru rate	Internal Capture	Net Trip Rate
Active Adult Multifamily Residential	Dwelling Unit	2.40	4.27	0%	8.5%	3.91
Medium Density Multifamily Residential	Dwelling Unit	6.59	8.00	0%	8.5%	7.32
Single-Family Detached Residential	Dwelling Unit	9.52	10.00	0%	8.5%	9.15
Non-Residential Uses						
Village Center Mixed Use Local Serving Retail	1,000 SF	44.32	40.00	55%	8.5%	32.94
K-8 School	Students	1.29	1.85	40%	8.5%	1.02
Agricultural Farm	Acres	—	2.00	0%	8.5%	1.83
Active Park	Acres	1.89	50.00	0%	8.5%	47.55
Passive Park	Acres	1.89	5.00	0%	8.5%	4.58
Recreation Center	1,000 SF	33.82	28.82	0%	8.5%	26.37
RV Parking/Solar Farm	Spaces	—	0.200	0%	8.5%	0.18

Sources: CAPCOA 2016; LGG 2020
SF = square feet

Annual emissions at buildout are needed to analyze GHG emissions. Therefore, the daily totals were annualized by multiplying the daily rate by the CARB conversion factor of 347 (CARB 2018). Table B presents the daily and annual trips generated by the project at build-out conditions in 2035, based on the trip rates depicted in Table A.

Table B: Estimated Daily and Annual Trips

Land Use Type	Units	Size Metric	Trips per Day	Trips per Year
Preferred Land Use Plan with School				
Village Center Mixed Use: Multifamily Residential	790	Dwelling Unit	3,180	1,103,460
Active Adult Multifamily Residential	445	Dwelling Unit	1,735	602,045
Medium Density Multifamily Residential	435	Dwelling Unit	5,780	2,005,660
Single-Family Detached Residential	1,279	Dwelling Unit	11,668	4,048,796
Village Center Mixed Use Local Serving Retail	80	1,000 SF	1,365	473,655
K-8 School	1,000	Students	1,015	352,205
Agricultural Farm	38.2	Acres	65	22,555
Active Park	19.9	Acres	910	315,770
Passive Park	58.3	Acres	245	85,015
Recreation Center	10	1,000 SF	264	91,608
RV Parking/Solar Farm	250	Spaces	45	15,615
Totals			26,272	9,116,384

Table B: Estimated Daily and Annual Trips

Land Use Type	Units	Size Metric	Trips per Day	Trips per Year
Land Use Plan without School				
Village Center Mixed Use: Multifamily Residential	790	Dwelling Unit	3,180	1,103,460
Active Adult Multifamily Residential	445	Dwelling Unit	1,735	602,045
Medium Density Multifamily Residential	435	Dwelling Unit	5,780	2,005,660
Single-Family Detached Residential	1,338	Dwelling Unit	12,243	4,248,217
Village Center Mixed Use Local Serving Retail	80	1,000 SF	1,365	473,655
Agricultural Farm	38.2	Acres	65	22,555
Active Park	19.9	Acres	910	315,770
Passive Park	53.5	Acres	245	85,015
Recreation Center	10	1,000 SF	264	91,608
RV Parking/Solar Farm	250	Spaces	45	15,615
Totals			26,847	9,315,805

Source: LLG 2020

Mitigation Measure Air-6 would result in reductions of project VMT, which is presented in the Air Quality Analysis for Fanita Ranch Project (LSA 2020). The estimated VMT reductions are based on the California Air Pollution Control Officers Association Quantifying Greenhouse Gas Mitigation Measures: A Resource for Local Government to Assess Emission Reductions from Greenhouse Gas Mitigation Measures (CAPCOA Quantification Report) (CAPCOA 2010) guidance document and the proposed project’s TDM Program. The CAPCOA Quantification Report notes that when determining the overall VMT reduction associated with a project, the VMT reduction for each individual strategy should be “dampened,” that is adjusted to reflect the fact that some of the strategies may be redundant or applicable to the same populations (CAPCOA 2010).

In addition to trip rates (presented in Table A), trip lengths, trip purpose, and trip type are factors in the calculation of proposed project VMT and associated vehicle-generated emissions. In general, CalEEMod determines an overall average trip length for primary, diverted, and pass-by trip link types¹ where primary trips are 100 percent of the trip length; diverted trips are 25 percent of the primary trip length; and pass-by trips are 0.1 mile (CAPCOA 2016). For this project analysis, the CalEEMod default trip type percentages were adjusted so that the CalEEMod generated VMT would mathematically match the overall weekday VMT data (i.e., 243,266 daily VMT for the Preferred Land Use Plan with Schools and 249,124 for the Land Use Plan without Schools) provided in the proposed project’s VMT Analysis (LLG 2020). This simple mathematical adjustment was performed by assuming all trip lengths were the same and all trips were primary trips. This approach is consistent with the transportation modeling, which accounts for a full inventory of trip categories; that is, both primary and shorter trips are already assessed in the model (i.e., the modeled VMT estimates

¹ Trip link types further describe the characteristics of the trip attracted to each land use, whether it is a primary trip, a diverted link trip, or a pass-by trip. For example, a commercial customer pass-by trip could be a person going from home to shop on the way to work. In addition, a commercial customer diverted-link trip could be a person going from home to work, and making a diversion to shop (CAPCOA 2016).

provided in the TDM Program Evaluation reflect primary trip, pass-by trips, and diverted trips). Table C depicts the CalEEMod default and adjusted trip lengths.

Table C: CalEEMod Default and Project Adjusted Trip Lengths

Land Use Type	CalEEMod Default Trip Length			Fanita Ranch Project Adjusted Miles		
	Home-Work	Home-Shop	Home-Other	Home-Work	Home-Shop	Home-Other
Village Center Mixed Use: Multifamily Residential	10.8	7.3	7.5	20.4	20.4	20.4
Active Adult Multifamily Residential	10.8	7.3	7.5	12.8	12.8	12.8
Medium Density Multifamily Residential	10.8	7.3	7.5	20.4	20.4	20.4
Single-Family Detached Residential (low Density)	10.8	7.3	7.5	20.4	20.4	20.4
Non-Residential Trip Type	Commercial-Customer	Commercial-Work	Commercial-Non-Work	Commercial-Customer	Commercial-Work	Commercial-Non-Work
K-8 School	9.5	7.3	7.3	11.3	11.3	11.3
Agricultural Farm	9.5	7.3	7.3	12.25	12.25	12.25
Active Park	9.5	7.3	7.3	12.25	12.25	12.25
Passive Park	9.5	7.3	7.3	12.25	12.25	12.25
Recreation Center	9.5	7.3	7.3	12.25	12.25	12.25
RV Parking/Solar Farm	9.5	7.3	7.3	11.9	11.9	11.9

Source: CAPCOA 2016, LSA 2019

Finally, CalEEMod default emissions factors and vehicle fleet mix were conservatively used for the model inputs to estimate daily emissions from proposed vehicular sources. Emission factors representing the vehicle mix and emissions for 2035 were used to estimate emissions associated with full buildout of the project.

Electric Vehicle Chargers

The proposed project would include a multi-pronged approach to increasing EV adoption for its residents. As part of this strategy: Level 2 Electric Vehicle Supply Equipment (EVSE) would be installed in the garages all single-family residential units (1,203 units in the Preferred Land Use Plan with Schools and 1,262 in the Land Use Plan without Schools), a total of 354 within the parking areas of multifamily residential, and 15 parking spaces located in the proposed project’s commercial parking lots. These Proposed Project-specific strategies, in conjunction with market forces decreasing the cost and increasing the availability of EVs, regional charging initiatives decreasing range anxiety and increasing the share of miles driven by plug-in hybrid electric vehicles (PHEVs) in EV mode, and State targets fueling large programs and incentive pools making EV ownership more

cost effective and appealing, will increase the market penetration of EVs and share of EV miles driven as a result of the proposed project.

The cornerstone of the proposed project's strategy to increase EV adoption by future residents is the availability of "fast-charging" through 240-volt Level 2 EVSE equipment. In a 2011 report investigating people's major decision-making factors in purchasing an EV, the highest percentage of respondents (63 percent) cited the ability to charge at home (Accenture 2011). Home charging is also the most commonly used method of charging, accounting for more than 70 percent of all charging (Holland 2016). Charging at home is often the most convenient, since cars are parked overnight, allowing them sufficient time to charge when they are not in use and when energy is priced at "super off-peak" and is the least expensive (SDG&E 2017).

Studies have found that the availability of charging at home increased the person's propensity to purchase both EVs and PHEVs (Hidrué et al. 2011; Tal et al. 2013). Additionally, the CEC identified home charging as a high-priority strategy to increase EV sales and increase the number of miles driven by EVs (NREL 2014). The importance of charging EVs at home has been shown to be leveraged and made more appealing with the free installation of Level 2 EVSE. Of early EV owners surveyed in 2013, 56 percent of those respondents received a free or subsidized Level 2 charger, and almost 60 percent of those who received free or subsidized chargers cited the importance of that charger as the entire project is well within typical EV and PHEV range, either "a lot" or "a deciding factor" (CSE 2013). Of owners of PHEVs, 80 percent of them found the importance of the subsidy to install a Level 2 charger influential in their purchase (Krupa et al. 2014). The proposed project's efforts to increase EV adoption is also supported by the charging infrastructure in the surrounding community. In the City of Chula Vista, there are over 20 public charging stations within 15 miles of the project area, and 140 public charging stations within the Greater San Diego Area (Plugshare 2017). This existing infrastructure is focused in areas where cars are parked for longer periods of time allowing for greater charging, such as shopping malls and downtowns. This infrastructure pattern allows for PHEVs to charge more frequently and achieve similar EV mode miles as full-EVs (INL 2016). Planned infrastructure in the San Diego region, notably at park and rides and the San Diego International Airport is congruent with strategies outlined by the National Energy Renewable Laboratory (NREL 2014; Trabish 2017).

Of EV owners surveyed, 94 percent live in households with two or more people, and most have access to a conventional gasoline or diesel car. For those households with both a conventional gas car and EV, the EV is used for over 85 percent of the household VMT, and the conventional car is used primarily for vacation and long distance travel (CSE 2012, 2013). The development pattern of the proposed project would serve households similar to those existing owners and is well within EV range of existing employment and retail centers in the City of Santee. Therefore, the Proposed Project's majority single-family product type and proximity to daily needs well within current EV range, make it well suited for EV adoption, and associated on-site mitigation would meaningfully reduce on-site GHG emissions. Substantial reduction in VMT-related emissions would be expected from the proposed project's facilitation of EV ownership and was assumed to reduce conventional gasoline fueled car use by 13 percent. This is reflected in CalEEMod by the application of a 13 percent reduction in VMT per household and an increase in household electricity usage to account for vehicle charging.

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APPENDIX D

CALINE4 OUTPUT

CALINE4 Modeling Data - AM - 2035 Without Project

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Princess Joann Rd & Cuyamaca St	NB	Approach	230	13.1	40	1.59	SB	Approach	300	13.1	40	1.59	
		Depart	165	25.9	N/A	0.71		Depart	520	24.1	N/A	0.99	
		Left Turn	0	--	--	--		Left Turn	10	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	15	7.4	70	2.12	
		Depart	90	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	220	1.7	80	2.28	
	NBX	Approach	230	28	N/A	0.69	SBX	Approach	310	28	N/A	0.69	
		Depart	165	28	N/A	0.69		Depart	520	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	235	28	N/A	0.69	
		Depart	90	28	N/A	0.69		Depart	0	--	--	--	
	Ganley Rd & Fanita Pkwy	NB	Approach	252	13.1	40	1.59	SB	Approach	392	12.4	40	1.68
			Depart	199	25.9	N/A	0.71		Depart	520	24.1	N/A	0.99
Left Turn			0	--	--	--	Left Turn		5	5.1	80	2.27	
EB		Approach	0	--	--	--	WB	Approach	5	7.4	70	2.12	
		Depart	63	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	128	5.1	80	2.27	
NBX		Approach	252	28	N/A	0.69	SBX	Approach	397	28	N/A	0.69	
		Depart	199	28	N/A	0.69		Depart	520	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	133	28	N/A	0.69	
		Depart	63	28	N/A	0.69		Depart	0	--	--	--	
Woodglen Vista Dr & Cuyamaca St		NB	Approach	285	10.5	55	1.90	SB	Approach	495	9	55	2.02
			Depart	220	24	N/A	1.02		Depart	745	14	N/A	1.49
	Left Turn		5	5.1	80	2.27	Left Turn		10	5.1	80	2.27	
	EB	Approach	20	11.1	55	1.83	WB	Approach	5	11.1	55	1.83	
		Depart	85	24.4	N/A	0.90		Depart	5	24.4	N/A	0.90	
		Left Turn	0	--	--	--		Left Turn	235	1.7	80	2.28	
	NBX	Approach	290	28	N/A	0.69	SBX	Approach	505	28	N/A	0.69	
		Depart	220	28	N/A	0.69		Depart	745	28	N/A	0.69	
	EBX	Approach	20	28	N/A	0.69	WBX	Approach	240	28	N/A	0.69	
		Depart	85	28	N/A	0.69		Depart	5	28	N/A	0.69	
	El Nopa; & Cuyamaca St.	NB	Approach	330	9.8	55	1.97	SB	Approach	390	3	55	2.28
			Depart	280	24	N/A	1.02		Depart	385	6.5	N/A	2.18
Left Turn			5	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
EB		Approach	15	11.8	55	1.75	WB	Approach	120	11.8	55	1.75	
		Depart	5	27.6	N/A	0.69		Depart	10	27.6	N/A	0.69	
		Left Turn	0	--	--	--		Left Turn	105	1.7	80	2.28	
NBX		Approach	335	28	N/A	0.69	SBX	Approach	390	28	N/A	0.69	
		Depart	280	28	N/A	0.69		Depart	495	28	N/A	0.69	
EBX		Approach	15	31	N/A	0.65	WBX	Approach	120	31	N/A	0.65	
		Depart	60	31	N/A	0.65		Depart	15	31	N/A	0.65	
El Nopal & Magnolia Ave		NB	Approach	330	9.8	55	1.97	SB	Approach	735	3	55	2.28
			Depart	285	24	N/A	1.02		Depart	1,005	6.5	N/A	2.18
	Left Turn		5	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	15	11.8	55	1.75	WB	Approach	10	11.8	55	1.75	
		Depart	60	27.6	N/A	0.69		Depart	15	27.6	N/A	0.69	
		Left Turn	0	--	--	--		Left Turn	265	1.7	80	2.28	
	NBX	Approach	335	28	N/A	0.69	SBX	Approach	740	28	N/A	0.69	
		Depart	285	28	N/A	0.69		Depart	1,005	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	275	31	N/A	0.65	
		Depart	60	31	N/A	0.65		Depart	15	31	N/A	0.65	
	El Nopal & Los Ranchitos Rd	NB	Approach	250	6.4	70	2.19	SB	Approach	0	--	--	--
			Depart	0	--	--	--		Depart	210	20	N/A	2.21
Left Turn			15	5.1	80	2.27	Left Turn		0	--	--	--	
EB		Approach	350	12.4	40	1.68	WB	Approach	271	13.1	40	1.59	
		Depart	580	24.1	N/A	0.99		Depart	286	25.6	N/A	0.72	
		Left Turn	0	--	--	--		Left Turn	190	5.1	80	2.27	
NBX		Approach	265	28	N/A	0.69	SBX	Approach	0	--	--	--	
		Depart	0	--	--	--		Depart	210	28	N/A	0.69	
EBX		Approach	350	28	N/A	0.69	WBX	Approach	461	28	N/A	0.69	
		Depart	580	28	N/A	0.69		Depart	286	28	N/A	0.69	
Lake Canyon Rd & Fanita Pkwy		NB	Approach	314	12.4	40	1.68	SB	Approach	486	11.6	40	1.77
			Depart	260	25.6	N/A	0.72		Depart	576	24.1	N/A	0.99
	Left Turn		0	--	--	--	Left Turn		28	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	21	7.4	70	2.12	
		Depart	103	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	90	5.1	80	2.27	
	NBX	Approach	314	28	N/A	0.69	SBX	Approach	514	28	N/A	0.69	
		Depart	260	28	N/A	0.69		Depart	576	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	111	28	N/A	0.69	
		Depart	103	28	N/A	0.69		Depart	0	--	--	--	
	Beck Dr & Cuyamaca St	NB	Approach	350	9.8	55	1.97	SB	Approach	955	1	55	2.28
			Depart	320	23.6	N/A	1.14		Depart	1,065	6.5	N/A	2.18

CALINE4 Modeling Data - AM - 2035 Without Project

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Left Turn	5	5.1	80	2.27	WB	Left Turn	5	5.1	80	2.27	
		Approach	15	11.8	55	1.75		Approach	10	11.8	55	1.75	
		Depart	40	27.6	N/A	0.69		Depart	10	27.6	N/A	0.69	
	NBX	Left Turn	0	--	--	--	SBX	Left Turn	95	5.3	80	2.26	
		Approach	355	28	N/A	0.69		Approach	960	28	N/A	0.69	
		Depart	320	28	N/A	0.69		Depart	1,065	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	105	31	N/A	0.65	
		Depart	40	31	N/A	0.65		Depart	10	31	N/A	0.65	
	Mast Blvd & SR-52 WB Ramps	NB	Approach	75	7.7	70	2.10	SB	Approach	0	--	--	--
			Depart	2,735	0.9	N/A	2.28		Depart	0	--	--	--
			Left Turn	10	5.3	80	2.26		Left Turn	0	--	--	--
		EB	Approach	470	13.9	40	1.50	WB	Approach	3,005	2.7	40	2.28
Depart			545	29.1	N/A	0.67	Depart		300	29.1	N/A	0.67	
Left Turn			20	5.3	80	2.26	Left Turn		0	--	--	--	
NBX		Approach	85	31	N/A	0.65	SBX	Approach	0	--	--	--	
		Depart	2,735	31	N/A	0.65		Depart	0	--	--	--	
EBX		Approach	490	31	N/A	0.65	WBX	Approach	3,005	31	N/A	0.65	
		Depart	545	31	N/A	0.65		Depart	300	31	N/A	0.65	
Mast Blvd & West Hills Pkwy		NB	Approach	440	1.7	70	2.28	SB	Approach	110	7.7	70	2.10
			Depart	155	23.9	N/A	1.05		Depart	260	22.3	N/A	1.53
	Left Turn		1,200	0.1	80	2.28	Left Turn		10	5.3	80	2.26	
	EB	Approach	425	13.9	40	1.50	WB	Approach	1,725	4.9	40	2.28	
		Depart	750	28.6	N/A	0.68		Depart	3,005	14.1	N/A	1.48	
		Left Turn	120	5.3	80	2.26		Left Turn	140	5.3	80	2.26	
	NBX	Approach	1,640	31	N/A	0.65	SBX	Approach	120	31	N/A	0.65	
		Depart	155	31	N/A	0.65		Depart	260	31	N/A	0.65	
	EBX	Approach	545	31	N/A	0.65	WBX	Approach	1,865	31	N/A	0.65	
		Depart	750	31	N/A	0.65		Depart	3,005	31	N/A	0.65	
	Mast Blvd & Fanita Pkwy	NB	Approach	140	7.7	70	2.10	SB	Approach	520	0.7	70	2.28
			Depart	360	18	N/A	1.88		Depart	470	10.1	N/A	1.95
Left Turn			70	5.3	80	2.26	Left Turn		60	5.3	80	2.26	
EB		Approach	720	12.4	40	1.68	WB	Approach	1,540	7.2	40	2.14	
		Depart	650	25.2	N/A	0.72		Depart	1,880	13.2	N/A	1.58	
		Left Turn	190	5.1	80	2.27		Left Turn	120	5.1	80	2.27	
NBX		Approach	210	31	N/A	0.65	SBX	Approach	580	31	N/A	0.65	
		Depart	360	31	N/A	0.65		Depart	470	31	N/A	0.65	
EBX		Approach	910	28	N/A	0.69	WBX	Approach	1,660	28	N/A	0.69	
		Depart	650	28	N/A	0.69		Depart	1,880	28	N/A	0.69	
Mast Blvd & Cuyamaca St		NB	Approach	385	11.8	55	1.75	SB	Approach	945	9.3	55	2.00
			Depart	415	27.1	N/A	0.70		Depart	1,135	24.1	N/A	0.99
	Left Turn		210	5.3	80	2.26	Left Turn		90	5.3	80	2.26	
	EB	Approach	705	10.3	55	1.92	WB	Approach	865	9.3	55	2.00	
		Depart	730	26.7	N/A	0.70		Depart	1,445	14.8	N/A	1.40	
		Left Turn	150	5.3	80	2.26		Left Turn	375	5.3	80	2.26	
	NBX	Approach	595	31	N/A	0.65	SBX	Approach	1,035	31	N/A	0.65	
		Depart	415	31	N/A	0.65		Depart	1,135	31	N/A	0.65	
	EBX	Approach	855	31	N/A	0.65	WBX	Approach	1,240	31	N/A	0.65	
		Depart	730	31	N/A	0.65		Depart	1,445	31	N/A	0.65	
	Riverford Rd & SR-67 SB Ramps	NB	Approach	630	9.2	40	2.01	SB	Approach	1,050	2.7	40	2.28
			Depart	820	17.8	N/A	1.84		Depart	400	25.2	N/A	0.72
Left Turn			460	0.2	80	2.28	Left Turn		0	--	--	--	
EB		Approach	0	--	--	--	WB	Approach	190	7.7	70	2.10	
		Depart	0	--	--	--		Depart	1,130	0.9	N/A	2.28	
		Left Turn	0	--	--	--		Left Turn	20	5.3	80	2.26	
NBX		Approach	1,090	28	N/A	0.69	SBX	Approach	1,050	28	N/A	0.69	
		Depart	820	28	N/A	0.69		Depart	400	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	210	31	N/A	0.65	
		Depart	0	--	--	--		Depart	1,130	31	N/A	0.65	
Riverford Rd & Woodside Ave		NB	Approach	0	--	--	--	SB	Approach	50	7.4	70	2.12
			Depart	1,300	0.9	N/A	2.28		Depart	0	--	--	--
	Left Turn		0	--	--	--	Left Turn		300	1.7	80	2.28	
	EB	Approach	740	7.2	40	2.14	WB	Approach	700	9.2	40	2.01	
		Depart	1,040	13.2	N/A	1.58		Depart	180	25.9	N/A	0.71	
		Left Turn	730	0	80	2.28		Left Turn	0	--	--	--	
	NBX	Approach	0	--	--	--	SBX	Approach	350	28	N/A	0.69	
		Depart	1,300	28	N/A	0.69		Depart	0	--	--	--	
	EBX	Approach	1,470	28	N/A	0.69	WBX	Approach	700	28	N/A	0.69	
		Depart	1,040	28	N/A	0.69		Depart	180	28	N/A	0.69	
	Mission Gorge Rd & West Hills Pkwy	NB	Approach	140	7.7	70	2.10	SB	Approach	470	1.7	70	2.28
			Depart	1,610	0.9	N/A	2.28		Depart	220	22.3	N/A	1.53
Left Turn			40	5.3	80	2.26	Left Turn		175	5.3	80	2.26	
Approach			490	13.9	40	1.50	Approach		2,325	2.7	40	2.28	

CALINE4 Modeling Data - AM - 2035 Without Project

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Depart	665	28.6	N/A	0.68	WB	Depart	1,540	23.5	N/A	1.17	
		Left Turn	315	5.3	80	2.26		Left Turn	80	5.3	80	2.26	
	NBX	Approach	180	31	N/A	0.65	SBX	Approach	645	31	N/A	0.65	
		Depart	1,610	31	N/A	0.65		Depart	220	31	N/A	0.65	
	EBX	Approach	805	31	N/A	0.65	WBX	Approach	2,405	31	N/A	0.65	
		Depart	665	31	N/A	0.65		Depart	1,540	31	N/A	0.65	
Mission Gorge Rd & Carlton Hills Blvd	NB	Approach	50	7.7	70	2.10	SB	Approach	1,090	0.1	70	2.28	
		Depart	1,205	0.9	N/A	2.28		Depart	195	23.9	N/A	1.05	
		Left Turn	40	5.3	80	2.26		Left Turn	425	1.7	80	2.28	
	EB	Approach	865	13.9	40	1.50	WB	Approach	1,745	11.1	40	1.83	
		Depart	1,210	28.1	N/A	0.68		Depart	2,370	23.5	N/A	1.17	
		Left Turn	740	0.5	80	2.28		Left Turn	25	5.3	80	2.26	
	NBX	Approach	90	31	N/A	0.65	SBX	Approach	1,515	31	N/A	0.65	
		Depart	1,205	31	N/A	0.65		Depart	195	31	N/A	0.65	
	EBX	Approach	1,605	31	N/A	0.65	WBX	Approach	1,770	31	N/A	0.65	
		Depart	1,210	31	N/A	0.65		Depart	2,370	31	N/A	0.65	
	Mission Gorge Rd & Town Center Pkwy	NB	Approach	185	7.7	70	2.10	SB	Approach	410	1.7	70	2.28
			Depart	560	5.1	N/A	2.27		Depart	420	10.1	N/A	1.95
Left Turn			210	5.3	80	2.26	Left Turn		110	5.3	80	2.26	
EB		Approach	820	13.1	40	1.59	WB	Approach	970	12.4	40	1.68	
		Depart	775	25.6	N/A	0.72		Depart	1,350	24.8	N/A	0.78	
		Left Turn	300	5.1	80	2.27		Left Turn	100	5.1	80	2.27	
NBX		Approach	395	31	N/A	0.65	SBX	Approach	520	31	N/A	0.65	
		Depart	560	31	N/A	0.65		Depart	420	31	N/A	0.65	
EBX		Approach	1,120	28	N/A	0.69	WBX	Approach	1,070	28	N/A	0.69	
		Depart	775	28	N/A	0.69		Depart	1,350	28	N/A	0.69	
Mission Gorge Rd & Cuyamaca St		NB	Approach	710	4.2	70	2.28	SB	Approach	695	6.6	70	2.18
			Depart	890	10.1	N/A	1.95		Depart	1,065	18	N/A	1.88
	Left Turn		700	0.5	80	2.28	Left Turn		145	5.3	80	2.26	
	EB	Approach	755	13.9	40	1.50	WB	Approach	720	13.9	40	1.50	
		Depart	730	29.1	N/A	0.67		Depart	1,400	28.1	N/A	0.68	
		Left Turn	170	5.3	80	2.26		Left Turn	190	5.3	80	2.26	
	NBX	Approach	1,410	31	N/A	0.65	SBX	Approach	840	31	N/A	0.65	
		Depart	890	31	N/A	0.65		Depart	1,065	31	N/A	0.65	
	EBX	Approach	925	31	N/A	0.65	WBX	Approach	910	31	N/A	0.65	
		Depart	730	31	N/A	0.65		Depart	1,400	31	N/A	0.65	
	Mission Gorge Rd & Cottonwood Ave	NB	Approach	190	7.7	70	2.10	SB	Approach	65	7.7	70	2.10
			Depart	155	23.9	N/A	1.05		Depart	270	22.3	N/A	1.53
Left Turn			120	5.3	80	2.26	Left Turn		30	5.3	80	2.26	
EB		Approach	575	13.7	40	1.52	WB	Approach	995	12.4	40	1.68	
		Depart	605	25.6	N/A	0.72		Depart	1,110	25.2	N/A	0.72	
		Left Turn	35	5.1	80	2.27		Left Turn	130	5.1	80	2.27	
NBX		Approach	310	31	N/A	0.65	SBX	Approach	95	31	N/A	0.65	
		Depart	155	31	N/A	0.65		Depart	270	31	N/A	0.65	
EBX		Approach	610	28	N/A	0.69	WBX	Approach	1,125	28	N/A	0.69	
		Depart	605	28	N/A	0.69		Depart	1,110	28	N/A	0.69	
Mission Gorge Rd & Magnolia Ave		NB	Approach	1,235	5.5	55	2.25	SB	Approach	1,485	3.1	55	2.28
			Depart	1,260	20.4	N/A	2.09		Depart	1,810	6.5	N/A	2.18
	Left Turn		270	5.3	80	2.26	Left Turn		335	5.3	80	2.26	
	EB	Approach	400	11.8	55	1.75	WB	Approach	930	9.3	55	2.00	
		Depart	985	25.6	N/A	0.72		Depart	1,185	24.1	N/A	0.99	
		Left Turn	155	5.3	80	2.26		Left Turn	430	1.7	80	2.28	
	NBX	Approach	1,505	31	N/A	0.65	SBX	Approach	1,820	31	N/A	0.65	
		Depart	1,260	31	N/A	0.65		Depart	1,810	31	N/A	0.65	
	EBX	Approach	555	31	N/A	0.65	WBX	Approach	1,360	31	N/A	0.65	
		Depart	985	31	N/A	0.65		Depart	1,185	31	N/A	0.65	
	Woodside Ave N & SR-67 SB Off-Ramp	NB	Approach	450	11.6	40	1.77	SB	Approach	630	12.4	40	1.68
			Depart	0	--	--	--		Depart	1,100	24.1	N/A	0.99
Left Turn			320	0.5	80	2.28	Left Turn		10	5.1	80	2.27	
EB		Approach	160	7.7	70	2.10	WB	Approach	10	7.7	70	2.10	
		Depart	470	10.1	N/A	1.95		Depart	370	18	N/A	1.88	
		Left Turn	0	--	--	--		Left Turn	360	0.5	80	2.28	
NBX		Approach	770	28	N/A	0.69	SBX	Approach	640	28	N/A	0.69	
		Depart	0	--	--	--		Depart	1,100	28	N/A	0.69	
EBX		Approach	160	31	N/A	0.65	WBX	Approach	370	31	N/A	0.65	
		Depart	470	31	N/A	0.65		Depart	370	31	N/A	0.65	

CALINE4 Modeling Data - PM - 2035 Without Project

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Princess Joann Rd & Cuyamaca St	NB	Approach	600	10.6	40	1.89	SB	Approach	180	13.7	40	1.52	
		Depart	390	25.2	N/A	0.72		Depart	280	25.6	N/A	0.72	
		Left Turn	0	--	--	--		Left Turn	10	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	10	7.4	70	2.12	
		Depart	230	20	N/A	2.21		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	100	5.1	80	2.27	
	NBX	Approach	600	28	N/A	0.69	SBX	Approach	190	28	N/A	0.69	
		Depart	390	28	N/A	0.69		Depart	280	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	110	28	N/A	0.69	
		Depart	230	28	N/A	0.69		Depart	0	--	--	--	
	Ganley Rd & Fanita Pkwy	NB	Approach	596	10.6	40	1.89	SB	Approach	232	13.1	40	1.59
			Depart	498	24.8	N/A	0.78		Depart	295	25.6	N/A	0.72
Left Turn			0	--	--	--	Left Turn		5	5.1	80	2.27	
EB		Approach	0	--	--	--	WB	Approach	5	7.4	70	2.12	
		Depart	108	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	63	5.1	80	2.27	
NBX		Approach	596	28	N/A	0.69	SBX	Approach	237	28	N/A	0.69	
		Depart	498	28	N/A	0.69		Depart	295	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	68	28	N/A	0.69	
		Depart	108	28	N/A	0.69		Depart	0	--	--	--	
Woodglen Vista Dr & Cuyamaca St		NB	Approach	805	1.6	55	2.28	SB	Approach	265	10.5	55	1.90
			Depart	580	21.7	N/A	1.71		Depart	385	23.6	N/A	1.14
	Left Turn		10	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	15	11.1	55	1.83	WB	Approach	20	11.1	55	1.83	
		Depart	250	24	N/A	1.02		Depart	20	24.4	N/A	0.90	
		Left Turn	0	--	--	--		Left Turn	115	5.1	80	2.27	
	NBX	Approach	815	28	N/A	0.69	SBX	Approach	270	28	N/A	0.69	
		Depart	580	28	N/A	0.69		Depart	385	28	N/A	0.69	
	EBX	Approach	15	28	N/A	0.69	WBX	Approach	135	28	N/A	0.69	
		Depart	250	28	N/A	0.69		Depart	20	28	N/A	0.69	
	El Nopa; & Cuyamaca St.	NB	Approach	910	1	55	2.28	SB	Approach	390	10.5	55	1.90
			Depart	800	9.3	N/A	2.00		Depart	385	23.6	N/A	1.14
Left Turn			15	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
EB		Approach	10	11.8	55	1.75	WB	Approach	270	11.1	55	1.83	
		Depart	5	27.6	N/A	0.69		Depart	5	24.4	N/A	0.90	
		Left Turn	5	5.3	80	2.26		Left Turn	265	5.1	80	2.27	
NBX		Approach	925	28	N/A	0.69	SBX	Approach	390	28	N/A	0.69	
		Depart	805	28	N/A	0.69		Depart	495	28	N/A	0.69	
EBX		Approach	15	31	N/A	0.65	WBX	Approach	120	28	N/A	0.69	
		Depart	120	31	N/A	0.65		Depart	25	28	N/A	0.69	
El Nopal & Magnolia Ave		NB	Approach	910	1	55	2.28	SB	Approach	385	9.8	55	1.97
			Depart	810	9.3	N/A	2.00		Depart	495	23	N/A	1.32
	Left Turn		15	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	10	11.8	55	1.75	WB	Approach	15	11.8	55	1.75	
		Depart	120	27.6	N/A	0.69		Depart	25	27.6	N/A	0.69	
		Left Turn	5	5.3	80	2.26		Left Turn	105	5.3	80	2.26	
	NBX	Approach	925	28	N/A	0.69	SBX	Approach	390	28	N/A	0.69	
		Depart	810	28	N/A	0.69		Depart	495	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	120	31	N/A	0.65	
		Depart	120	31	N/A	0.65		Depart	25	31	N/A	0.65	
	El Nopal & Los Ranchitos Rd	NB	Approach	220	6.4	70	2.19	SB	Approach	0	--	--	--
			Depart	0	--	--	--		Depart	185	21.5	N/A	1.77
Left Turn			10	5.1	80	2.27	Left Turn		0	--	--	--	
EB		Approach	315	12.4	40	1.68	WB	Approach	400	12.4	40	1.68	
		Depart	520	24.1	N/A	0.99		Depart	410	24.8	N/A	0.78	
		Left Turn	0	--	--	--		Left Turn	170	5.1	80	2.27	
NBX		Approach	230	28	N/A	0.69	SBX	Approach	0	--	--	--	
		Depart	0	--	--	--		Depart	185	28	N/A	0.69	
EBX		Approach	315	28	N/A	0.69	WBX	Approach	570	28	N/A	0.69	
		Depart	520	28	N/A	0.69		Depart	410	28	N/A	0.69	
Lake Canyon Rd & Fanita Pkwy		NB	Approach	700	9.2	40	2.01	SB	Approach	309	12.4	40	1.68
			Depart	659	23	N/A	1.32		Depart	362	25.2	N/A	0.72
	Left Turn		0	--	--	--	Left Turn		22	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	52	7.4	70	2.12	
		Depart	115	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	53	5.1	80	2.27	
	NBX	Approach	700	28	N/A	0.69	SBX	Approach	331	28	N/A	0.69	
		Depart	659	28	N/A	0.69		Depart	362	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	105	28	N/A	0.69	
		Depart	115	28	N/A	0.69		Depart	0	--	--	--	
	Beck Dr & Cuyamaca St	NB	Approach	990	1	55	2.28	SB	Approach	475	9	55	2.02
			Depart	930	6.5	N/A	2.18		Depart	540	21.7	N/A	1.71

CALINE4 Modeling Data - PM - 2035 Without Project

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Mast Blvd & SR-52 WB Ramps	EB	Left Turn	10	5.1	80	2.27	WB	Left Turn	5	5.1	80	2.27	
		Approach	10	11.8	55	1.75		Approach	10	11.8	55	1.75	
		Depart	70	27.6	N/A	0.69		Depart	20	27.6	N/A	0.69	
		Left Turn	0	--	--	--		Left Turn	60	5.3	80	2.26	
	NBX	Approach	1,000	28	N/A	0.69	SBX	Approach	480	28	N/A	0.69	
		Depart	930	28	N/A	0.69		Depart	540	28	N/A	0.69	
	EBX	Approach	10	31	N/A	0.65	WBX	Approach	70	31	N/A	0.65	
		Depart	70	31	N/A	0.65		Depart	20	31	N/A	0.65	
	Mast Blvd & West Hills Pkwy	NB	Approach	645	0.4	70	2.28	SB	Approach	0	--	--	--
			Depart	685	3.2	N/A	2.28		Depart	0	--	--	--
			Left Turn	0	--	--	--		Left Turn	0	--	--	--
		EB	Approach	1,590	7.4	40	2.12	WB	Approach	1,010	2.7	40	2.28
Depart			2,230	14.1	N/A	1.48	Depart		355	28.6	N/A	0.68	
Left Turn			25	5.3	80	2.26	Left Turn		0	--	--	--	
NBX		Approach	645	31	N/A	0.65	SBX	Approach	0	--	--	--	
		Depart	685	31	N/A	0.65		Depart	0	--	--	--	
EBX		Approach	1,615	31	N/A	0.65	WBX	Approach	1,010	31	N/A	0.65	
		Depart	2,230	31	N/A	0.65		Depart	355	31	N/A	0.65	
Mast Blvd & Fanita Pkwy		NB	Approach	505	0.7	70	2.28	SB	Approach	120	7.7	70	2.10
			Depart	275	22.3	N/A	1.53		Depart	720	1.6	N/A	2.28
	Left Turn		280	5.3	80	2.26	Left Turn		75	5.3	80	2.26	
	EB	Approach	2,080	2.7	40	2.28	WB	Approach	700	13.1	40	1.59	
		Depart	2,095	14.1	N/A	1.48		Depart	1,010	27.2	N/A	0.70	
		Left Turn	150	5.3	80	2.26		Left Turn	190	5.3	80	2.26	
	NBX	Approach	785	31	N/A	0.65	SBX	Approach	195	31	N/A	0.65	
		Depart	275	31	N/A	0.65		Depart	720	31	N/A	0.65	
	EBX	Approach	2,230	31	N/A	0.65	WBX	Approach	890	31	N/A	0.65	
		Depart	2,095	31	N/A	0.65		Depart	1,010	31	N/A	0.65	
	Mast Blvd & Cuyamaca St	NB	Approach	240	6.6	70	2.18	SB	Approach	330	4.2	70	2.28
			Depart	750	1.6	N/A	2.28		Depart	220	22.3	N/A	1.53
Left Turn			80	5.3	80	2.26	Left Turn		90	5.3	80	2.26	
EB		Approach	1,140	10.6	40	1.89	WB	Approach	580	13.1	40	1.59	
		Depart	1,210	23	N/A	1.32		Depart	780	25.2	N/A	0.72	
		Left Turn	460	0.2	80	2.28		Left Turn	40	5.1	80	2.27	
NBX		Approach	320	31	N/A	0.65	SBX	Approach	420	31	N/A	0.65	
		Depart	750	31	N/A	0.65		Depart	220	31	N/A	0.65	
EBX		Approach	1,600	28	N/A	0.69	WBX	Approach	620	28	N/A	0.69	
		Depart	1,210	28	N/A	0.69		Depart	780	28	N/A	0.69	
Riverford Rd & SR-67 SB Ramps		NB	Approach	1,055	7.9	55	2.09	SB	Approach	520	11	55	1.84
			Depart	1,170	24.1	N/A	0.99		Depart	965	25.6	N/A	0.72
	Left Turn		275	5.3	80	2.26	Left Turn		110	5.3	80	2.26	
	EB	Approach	1,220	5.5	55	2.25	WB	Approach	485	11	55	1.84	
		Depart	1,555	14.8	N/A	1.40		Depart	875	25.6	N/A	0.72	
		Left Turn	550	0.1	80	2.28		Left Turn	350	5.3	80	2.26	
	NBX	Approach	1,330	31	N/A	0.65	SBX	Approach	630	31	N/A	0.65	
		Depart	1,170	31	N/A	0.65		Depart	965	31	N/A	0.65	
	EBX	Approach	1,770	31	N/A	0.65	WBX	Approach	835	31	N/A	0.65	
		Depart	1,555	31	N/A	0.65		Depart	875	31	N/A	0.65	
	Riverford Rd & Woodside Ave	NB	Approach	860	4.8	40	2.28	SB	Approach	1,090	2.7	40	2.28
			Depart	980	13.2	N/A	1.58		Depart	310	25.2	N/A	0.72
Left Turn			300	1.7	80	2.28	Left Turn		0	--	--	--	
EB		Approach	0	--	--	--	WB	Approach	120	7.7	70	2.10	
		Depart	0	--	--	--		Depart	1,100	0.9	N/A	2.28	
		Left Turn	0	--	--	--		Left Turn	20	5.3	80	2.26	
NBX		Approach	1,160	28	N/A	0.69	SBX	Approach	1,090	28	N/A	0.69	
		Depart	980	28	N/A	0.69		Depart	310	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	140	31	N/A	0.65	
		Depart	0	--	--	--		Depart	1,100	31	N/A	0.65	
Mission Gorge Rd & West Hills Pkwy		NB	Approach	0	--	--	--	SB	Approach	40	7.4	70	2.12
			Depart	1,100	0.9	N/A	2.28		Depart	0	--	--	--
	Left Turn		0	--	--	--	Left Turn		220	1.7	80	2.28	
	EB	Approach	740	7.2	40	2.14	WB	Approach	480	11.6	40	1.77	
		Depart	960	13.2	N/A	1.58		Depart	150	25.9	N/A	0.71	
		Left Turn	730	0	80	2.28		Left Turn	0	--	--	--	
	NBX	Approach	0	--	--	--	SBX	Approach	260	28	N/A	0.69	
		Depart	1,100	28	N/A	0.69		Depart	0	--	--	--	
	EBX	Approach	1,470	28	N/A	0.69	WBX	Approach	480	28	N/A	0.69	
		Depart	960	28	N/A	0.69		Depart	150	28	N/A	0.69	
	Mast Blvd & SR-52 WB Ramps	NB	Approach	100	7.7	70	2.10	SB	Approach	430	1.7	70	2.28
			Depart	890	1.2	N/A	2.28		Depart	230	22.3	N/A	1.53
Left Turn			30	5.3	80	2.26	Left Turn		260	5.3	80	2.26	
Approach			965	12.3	40	1.69	Approach		765	13.1	40	1.59	

CALINE4 Modeling Data - PM - 2035 Without Project

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Depart	1,200	27.2	N/A	0.70	WB	Depart	885	28.1	N/A	0.68	
		Left Turn	570	1.7	80	2.28		Left Turn	85	5.3	80	2.26	
	NBX	Approach	130	31	N/A	0.65	SBX	Approach	690	31	N/A	0.65	
		Depart	890	31	N/A	0.65		Depart	230	31	N/A	0.65	
	EBX	Approach	1,535	31	N/A	0.65	WBX	Approach	850	31	N/A	0.65	
		Depart	1,200	31	N/A	0.65		Depart	885	31	N/A	0.65	
Mission Gorge Rd & Carlton Hills Blvd	NB	Approach	115	7.7	70	2.10	SB	Approach	740	0.2	70	2.28	
		Depart	1,555	0.9	N/A	2.28		Depart	440	10.1	N/A	1.95	
		Left Turn	60	5.3	80	2.26		Left Turn	435	1.7	80	2.28	
	EB	Approach	1,450	12.3	40	1.69	WB	Approach	1,620	11.1	40	1.83	
		Depart	1,760	27.2	N/A	0.70		Depart	1,655	27.2	N/A	0.70	
		Left Turn	840	0.2	80	2.28		Left Turn	150	5.3	80	2.26	
	NBX	Approach	175	31	N/A	0.65	SBX	Approach	1,175	31	N/A	0.65	
		Depart	1,555	31	N/A	0.65		Depart	440	31	N/A	0.65	
	EBX	Approach	2,290	31	N/A	0.65	WBX	Approach	1,770	31	N/A	0.65	
		Depart	1,760	31	N/A	0.65		Depart	1,655	31	N/A	0.65	
	Mission Gorge Rd & Town Center Pkwy	NB	Approach	490	1.7	70	2.28	SB	Approach	730	0.2	70	2.28
			Depart	1,285	0.9	N/A	2.28		Depart	605	3.2	N/A	2.28
Left Turn			390	5.3	80	2.26	Left Turn		340	5.3	80	2.26	
EB		Approach	1,330	11.6	40	1.77	WB	Approach	1,055	12.4	40	1.68	
		Depart	1,650	24.1	N/A	0.99		Depart	1,610	24.1	N/A	0.99	
		Left Turn	620	0.5	80	2.28		Left Turn	195	5.1	80	2.27	
NBX		Approach	880	31	N/A	0.65	SBX	Approach	1,070	31	N/A	0.65	
		Depart	1,285	31	N/A	0.65		Depart	605	31	N/A	0.65	
EBX		Approach	1,950	28	N/A	0.69	WBX	Approach	1,250	28	N/A	0.69	
		Depart	1,650	28	N/A	0.69		Depart	1,610	28	N/A	0.69	
Mission Gorge Rd & Cuyamaca St		NB	Approach	1,375	0.4	70	2.28	SB	Approach	1,085	4.2	70	2.28
			Depart	1,610	1.2	N/A	2.28		Depart	1,510	5.1	N/A	2.27
	Left Turn		735	0.5	80	2.28	Left Turn		345	5.3	80	2.26	
	EB	Approach	1,065	13.1	40	1.59	WB	Approach	745	13.9	40	1.50	
		Depart	1,410	28.1	N/A	0.68		Depart	1,480	28.1	N/A	0.68	
		Left Turn	370	5.3	80	2.26		Left Turn	290	5.3	80	2.26	
	NBX	Approach	2,110	31	N/A	0.65	SBX	Approach	1,430	31	N/A	0.65	
		Depart	1,610	31	N/A	0.65		Depart	1,510	31	N/A	0.65	
	EBX	Approach	1,435	31	N/A	0.65	WBX	Approach	1,035	31	N/A	0.65	
		Depart	1,410	31	N/A	0.65		Depart	1,480	31	N/A	0.65	
	Mission Gorge Rd & Cottonwood Ave	NB	Approach	290	6.6	70	2.18	SB	Approach	50	7.7	70	2.10
			Depart	260	22.3	N/A	1.53		Depart	350	18	N/A	1.88
Left Turn			155	5.3	80	2.26	Left Turn		20	5.3	80	2.26	
EB		Approach	1,420	11.6	40	1.77	WB	Approach	970	12.4	40	1.68	
		Depart	1,465	24.8	N/A	0.78		Depart	1,070	25.2	N/A	0.72	
		Left Turn	85	5.1	80	2.27		Left Turn	155	5.1	80	2.27	
NBX		Approach	445	31	N/A	0.65	SBX	Approach	70	31	N/A	0.65	
		Depart	260	31	N/A	0.65		Depart	350	31	N/A	0.65	
EBX		Approach	1,505	28	N/A	0.69	WBX	Approach	1,125	28	N/A	0.69	
		Depart	1,465	28	N/A	0.69		Depart	1,070	28	N/A	0.69	
Mission Gorge Rd & Magnolia Ave		NB	Approach	1,605	1.6	55	2.28	SB	Approach	865	9.3	55	2.00
			Depart	1,840	6.5	N/A	2.18		Depart	1,680	9.3	N/A	2.00
	Left Turn		310	5.3	80	2.26	Left Turn		285	5.3	80	2.26	
	EB	Approach	1,135	7.9	55	2.09	WB	Approach	975	9.3	55	2.00	
		Depart	1,480	14.8	N/A	1.40		Depart	1,160	24.1	N/A	0.99	
		Left Turn	390	5.3	80	2.26		Left Turn	595	1.7	80	2.28	
	NBX	Approach	1,915	31	N/A	0.65	SBX	Approach	1,150	31	N/A	0.65	
		Depart	1,840	31	N/A	0.65		Depart	1,680	31	N/A	0.65	
	EBX	Approach	1,525	31	N/A	0.65	WBX	Approach	1,570	31	N/A	0.65	
		Depart	1,480	31	N/A	0.65		Depart	1,160	31	N/A	0.65	
	Woodside Ave N & SR-67 SB Off-Ramp	NB	Approach	960	2.7	40	2.28	SB	Approach	560	13.1	40	1.59
			Depart	0	--	--	--		Depart	1,040	24.1	N/A	0.99
Left Turn			190	5.1	80	2.27	Left Turn		10	5.1	80	2.27	
EB		Approach	295	6.6	70	2.18	WB	Approach	5	7.7	70	2.10	
		Depart	1,005	0.9	N/A	2.28		Depart	205	22.3	N/A	1.53	
		Left Turn	0	--	--	--		Left Turn	230	1.7	80	2.28	
NBX		Approach	1,150	28	N/A	0.69	SBX	Approach	570	28	N/A	0.69	
		Depart	0	--	--	--		Depart	1,040	28	N/A	0.69	
EBX		Approach	295	31	N/A	0.65	WBX	Approach	235	31	N/A	0.65	
		Depart	1,005	31	N/A	0.65		Depart	205	31	N/A	0.65	

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Princess Joann Rd & Cuyamaca St	NB	Approach	355	12.4	40	1.68	SB	Approach	528	10.6	40	1.89	
		Depart	290	25.6	N/A	0.72		Depart	748	21	N/A	1.92	
		Left Turn	0	--	--	--		Left Turn	10	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	15	7.4	70	2.12	
		Depart	90	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	220	1.7	80	2.28	
	NBX	Approach	355	28	N/A	0.69	SBX	Approach	538	28	N/A	0.69	
		Depart	290	28	N/A	0.69		Depart	748	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	235	28	N/A	0.69	
		Depart	90	28	N/A	0.69		Depart	0	--	--	--	
	Ganley Rd & Fanita Pkwy	NB	Approach	455	11.6	40	1.77	SB	Approach	762	7.2	40	2.14
			Depart	402	24.8	N/A	0.78		Depart	890	17.8	N/A	1.84
Left Turn			0	--	--	--	Left Turn		5	5.1	80	2.27	
EB		Approach	0	--	--	--	WB	Approach	5	7.4	70	2.12	
		Depart	63	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	128	5.1	80	2.27	
NBX		Approach	455	28	N/A	0.69	SBX	Approach	767	28	N/A	0.69	
		Depart	402	28	N/A	0.69		Depart	890	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	133	28	N/A	0.69	
		Depart	63	28	N/A	0.69		Depart	0	--	--	--	
Woodglen Vista Dr & Cuyamaca St		NB	Approach	410	9	55	2.02	SB	Approach	723	3	55	2.28
			Depart	345	23.6	N/A	1.14		Depart	973	6.5	N/A	2.18
	Left Turn		5	5.1	80	2.27	Left Turn		10	5.1	80	2.27	
	EB	Approach	20	11.1	55	1.83	WB	Approach	5	11.1	55	1.83	
		Depart	85	24.4	N/A	0.90		Depart	5	24.4	N/A	0.90	
		Left Turn	0	--	--	--		Left Turn	235	1.7	80	2.28	
	NBX	Approach	415	28	N/A	0.69	SBX	Approach	733	28	N/A	0.69	
		Depart	345	28	N/A	0.69		Depart	973	28	N/A	0.69	
	EBX	Approach	20	28	N/A	0.69	WBX	Approach	240	28	N/A	0.69	
		Depart	85	28	N/A	0.69		Depart	5	28	N/A	0.69	
	El Nopa; & Cuyamaca St.	NB	Approach	455	9	55	2.02	SB	Approach	963	3	55	2.28
			Depart	405	23.6	N/A	1.14		Depart	958	6.5	N/A	2.18
Left Turn			5	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
EB		Approach	15	11.1	55	1.83	WB	Approach	275	11.1	55	1.83	
		Depart	5	24.4	N/A	0.90		Depart	5	24.4	N/A	0.90	
		Left Turn	0	--	--	--		Left Turn	265	1.7	80	2.28	
NBX		Approach	460	28	N/A	0.69	SBX	Approach	968	28	N/A	0.69	
		Depart	410	28	N/A	0.69		Depart	1,233	28	N/A	0.69	
EBX		Approach	15	28	N/A	0.69	WBX	Approach	275	28	N/A	0.69	
		Depart	60	28	N/A	0.69		Depart	15	28	N/A	0.69	
El Nopal & Magnolia Ave		NB	Approach	455	9	55	2.02	SB	Approach	963	1	55	2.28
			Depart	410	23	N/A	1.32		Depart	1,233	6.5	N/A	2.18
	Left Turn		5	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	15	11.8	55	1.75	WB	Approach	10	11.8	55	1.75	
		Depart	60	27.6	N/A	0.69		Depart	15	27.6	N/A	0.69	
		Left Turn	0	--	--	--		Left Turn	265	1.7	80	2.28	
	NBX	Approach	460	28	N/A	0.69	SBX	Approach	968	28	N/A	0.69	
		Depart	410	28	N/A	0.69		Depart	1,233	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	275	31	N/A	0.65	
		Depart	60	31	N/A	0.65		Depart	15	31	N/A	0.65	
	El Nopal & Los Ranchitos Rd	NB	Approach	250	6.4	70	2.19	SB	Approach	0	--	--	--
			Depart	0	--	--	--		Depart	210	20	N/A	2.21
Left Turn			15	5.1	80	2.27	Left Turn		0	--	--	--	
EB		Approach	429	11.6	40	1.77	WB	Approach	315	12.4	40	1.68	
		Depart	659	23	N/A	1.32		Depart	330	25.2	N/A	0.72	
		Left Turn	0	--	--	--		Left Turn	190	5.1	80	2.27	
NBX		Approach	265	28	N/A	0.69	SBX	Approach	0	--	--	--	
		Depart	0	--	--	--		Depart	210	28	N/A	0.69	
EBX		Approach	429	28	N/A	0.69	WBX	Approach	505	28	N/A	0.69	
		Depart	659	28	N/A	0.69		Depart	330	28	N/A	0.69	
Lake Canyon Rd & Fanita Pkwy		NB	Approach	500	11.6	40	1.77	SB	Approach	825	4.8	40	2.28
			Depart	463	24.8	N/A	0.78		Depart	915	13.2	N/A	1.58
	Left Turn		0	--	--	--	Left Turn		59	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	38	7.4	70	2.12	
		Depart	134	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	90	5.1	80	2.27	
	NBX	Approach	500	28	N/A	0.69	SBX	Approach	884	28	N/A	0.69	
		Depart	463	28	N/A	0.69		Depart	915	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	128	28	N/A	0.69	
		Depart	134	28	N/A	0.69		Depart	0	--	--	--	
	Beck Dr & Cuyamaca St	NB	Approach	475	9	55	2.02	SB	Approach	1,183	1	55	2.28
			Depart	445	23	N/A	1.32		Depart	1,293	6.5	N/A	2.18

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Left Turn	5	5.1	80	2.27	WB	Left Turn	5	5.1	80	2.27	
		Approach	15	11.8	55	1.75		Approach	10	11.8	55	1.75	
		Depart	40	27.6	N/A	0.69		Depart	10	27.6	N/A	0.69	
	NBX	Left Turn	0	--	--	--	SBX	Left Turn	95	5.3	80	2.26	
		Approach	480	28	N/A	0.69		Approach	1,188	28	N/A	0.69	
		Depart	445	28	N/A	0.69		Depart	1,293	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	105	31	N/A	0.65	
		Depart	40	31	N/A	0.65		Depart	10	31	N/A	0.65	
	Mast Blvd & SR-52 WB Ramps	NB	Approach	75	7.7	70	2.10	SB	Approach	0	--	--	--
			Depart	2,932	0.9	N/A	2.28		Depart	0	--	--	--
			Left Turn	10	5.3	80	2.26		Left Turn	0	--	--	--
		EB	Approach	578	13.9	40	1.50	WB	Approach	3,202	2.7	40	2.28
Depart			653	28.6	N/A	0.68	Depart		300	29.1	N/A	0.67	
Left Turn			20	5.3	80	2.26	Left Turn		0	--	--	--	
NBX		Approach	85	31	N/A	0.65	SBX	Approach	0	--	--	--	
		Depart	2,932	31	N/A	0.65		Depart	0	--	--	--	
EBX		Approach	598	31	N/A	0.65	WBX	Approach	3,202	31	N/A	0.65	
		Depart	653	31	N/A	0.65		Depart	300	31	N/A	0.65	
Mast Blvd & West Hills Pkwy		NB	Approach	475	1.7	70	2.28	SB	Approach	110	7.7	70	2.10
			Depart	155	23.9	N/A	1.05		Depart	323	18	N/A	1.88
	Left Turn		1,200	0.1	80	2.28	Left Turn		10	5.3	80	2.26	
	EB	Approach	533	13.9	40	1.50	WB	Approach	1,922	2.7	40	2.28	
		Depart	893	28.1	N/A	0.68		Depart	3,202	14.1	N/A	1.48	
		Left Turn	120	5.3	80	2.26		Left Turn	203	5.3	80	2.26	
	NBX	Approach	1,675	31	N/A	0.65	SBX	Approach	120	31	N/A	0.65	
		Depart	155	31	N/A	0.65		Depart	323	31	N/A	0.65	
	EBX	Approach	653	31	N/A	0.65	WBX	Approach	2,125	31	N/A	0.65	
		Depart	893	31	N/A	0.65		Depart	3,202	31	N/A	0.65	
	Mast Blvd & Fanita Pkwy	NB	Approach	196	7.7	70	2.10	SB	Approach	843	0.1	70	2.28
			Depart	546	5.1	N/A	2.27		Depart	573	5.1	N/A	2.27
Left Turn			70	5.3	80	2.26	Left Turn		76	5.3	80	2.26	
EB		Approach	755	12.4	40	1.68	WB	Approach	1,612	4.8	40	2.28	
		Depart	701	25.2	N/A	0.72		Depart	2,163	13.2	N/A	1.58	
		Left Turn	311	0.5	80	2.28		Left Turn	120	5.1	80	2.27	
NBX		Approach	266	31	N/A	0.65	SBX	Approach	919	31	N/A	0.65	
		Depart	546	31	N/A	0.65		Depart	573	31	N/A	0.65	
EBX		Approach	1,066	28	N/A	0.69	WBX	Approach	1,732	28	N/A	0.69	
		Depart	701	28	N/A	0.69		Depart	2,163	28	N/A	0.69	
Mast Blvd & Cuyamaca St		NB	Approach	479	11	55	1.84	SB	Approach	755	10.3	55	1.92
			Depart	540	27.1	N/A	0.70		Depart	1,308	20.4	N/A	2.09
	Left Turn		210	5.3	80	2.26	Left Turn		508	0.1	80	2.28	
	EB	Approach	705	10.3	55	1.92	WB	Approach	865	9.3	55	2.00	
		Depart	1,152	24.1	N/A	0.99		Depart	1,090	24.1	N/A	0.99	
		Left Turn	185	5.3	80	2.26		Left Turn	383	5.3	80	2.26	
	NBX	Approach	689	31	N/A	0.65	SBX	Approach	1,263	31	N/A	0.65	
		Depart	540	31	N/A	0.65		Depart	1,308	31	N/A	0.65	
	EBX	Approach	890	31	N/A	0.65	WBX	Approach	1,248	31	N/A	0.65	
		Depart	1,152	31	N/A	0.65		Depart	1,090	31	N/A	0.65	
	Riverford Rd & SR-67 SB Ramps	NB	Approach	634	9.2	40	2.01	SB	Approach	1,089	2.7	40	2.28
			Depart	842	17.8	N/A	1.84		Depart	439	24.8	N/A	0.78
Left Turn			460	0.2	80	2.28	Left Turn		0	--	--	--	
EB		Approach	0	--	--	--	WB	Approach	208	6.6	70	2.18	
		Depart	0	--	--	--		Depart	1,130	0.9	N/A	2.28	
		Left Turn	0	--	--	--		Left Turn	20	5.3	80	2.26	
NBX		Approach	1,094	28	N/A	0.69	SBX	Approach	1,089	28	N/A	0.69	
		Depart	842	28	N/A	0.69		Depart	439	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	228	31	N/A	0.65	
		Depart	0	--	--	--		Depart	1,130	31	N/A	0.65	
Riverford Rd & Woodside Ave		NB	Approach	0	--	--	--	SB	Approach	50	7.4	70	2.12
			Depart	1,094	0.9	N/A	2.28		Depart	0	--	--	--
	Left Turn		0	--	--	--	Left Turn		339	0.5	80	2.28	
	EB	Approach	350	12.4	40	1.68	WB	Approach	704	7.2	40	2.14	
		Depart	689	23	N/A	1.32		Depart	180	25.9	N/A	0.71	
		Left Turn	520	0.1	80	2.28		Left Turn	0	--	--	--	
	NBX	Approach	0	--	--	--	SBX	Approach	389	28	N/A	0.69	
		Depart	1,094	28	N/A	0.69		Depart	0	--	--	--	
	EBX	Approach	870	28	N/A	0.69	WBX	Approach	704	28	N/A	0.69	
		Depart	689	28	N/A	0.69		Depart	180	28	N/A	0.69	
	Mission Gorge Rd & West Hills Pkwy	NB	Approach	140	7.7	70	2.10	SB	Approach	549	0.7	70	2.28
			Depart	1,653	0.9	N/A	2.28		Depart	220	22.3	N/A	1.53
Left Turn			40	5.3	80	2.26	Left Turn		175	5.3	80	2.26	
Approach			490	13.9	40	1.50	Approach		2,325	2.7	40	2.28	

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Depart	665	28.6	N/A	0.68	WB	Depart	1,619	19.5	N/A	2.13	
		Left Turn	358	5.3	80	2.26		Left Turn	80	5.3	80	2.26	
		Approach	180	31	N/A	0.65		SBX	Approach	724	31	N/A	0.65
	Depart	1,653	31	N/A	0.65	Depart	220		31	N/A	0.65		
	Approach	848	31	N/A	0.65	WBX	Approach		2,405	31	N/A	0.65	
	Depart	665	31	N/A	0.65		Depart	1,619	31	N/A	0.65		
Mission Gorge Rd & Carlton Hills Blvd	NB	Approach	50	7.7	70		2.10	SB	Approach	1,208	0.1	70	2.28
		Depart	1,279	0.9	N/A	2.28	Depart		195	23.9	N/A	1.05	
		Left Turn	40	5.3	80	2.26	Left Turn		441	1.7	80	2.28	
	EB	Approach	908	13.1	40	1.59	WB	Approach	1,833	9.6	40	1.98	
		Depart	1,269	28.1	N/A	0.68		Depart	2,567	19.5	N/A	2.13	
		Left Turn	805	0.2	80	2.28		Left Turn	25	5.3	80	2.26	
	NBX	Approach	90	31	N/A	0.65	SBX	Approach	1,649	31	N/A	0.65	
		Depart	1,279	31	N/A	0.65		Depart	195	31	N/A	0.65	
	EBX	Approach	1,713	31	N/A	0.65	WBX	Approach	1,858	31	N/A	0.65	
		Depart	1,269	31	N/A	0.65		Depart	2,567	31	N/A	0.65	
	Mission Gorge Rd & Town Center Pkwy	NB	Approach	185	7.7	70	2.10	SB	Approach	410	1.7	70	2.28
			Depart	560	5.1	N/A	2.27		Depart	420	10.1	N/A	1.95
Left Turn			210	5.3	80	2.26	Left Turn		110	5.3	80	2.26	
EB		Approach	863	13.1	40	1.59	WB	Approach	1,049	12.4	40	1.68	
		Depart	818	25.6	N/A	0.72		Depart	1,429	24.8	N/A	0.78	
		Left Turn	300	5.1	80	2.27		Left Turn	100	5.1	80	2.27	
NBX		Approach	395	31	N/A	0.65	SBX	Approach	520	31	N/A	0.65	
		Depart	560	31	N/A	0.65		Depart	420	31	N/A	0.65	
EBX		Approach	1,163	28	N/A	0.69	WBX	Approach	1,149	28	N/A	0.69	
		Depart	818	28	N/A	0.69		Depart	1,429	28	N/A	0.69	
Mission Gorge Rd & Cuyamaca St		NB	Approach	753	4.2	70	2.28	SB	Approach	821	6.6	70	2.18
			Depart	963	10.1	N/A	1.95		Depart	1,144	18	N/A	1.88
	Left Turn		700	0.5	80	2.28	Left Turn		153	5.3	80	2.26	
	EB	Approach	768	13.9	40	1.50	WB	Approach	748	13.9	40	1.50	
		Depart	755	29.1	N/A	0.67		Depart	1,479	28.1	N/A	0.68	
		Left Turn	200	5.3	80	2.26		Left Turn	198	5.3	80	2.26	
	NBX	Approach	1,453	31	N/A	0.65	SBX	Approach	974	31	N/A	0.65	
		Depart	963	31	N/A	0.65		Depart	1,144	31	N/A	0.65	
	EBX	Approach	968	31	N/A	0.65	WBX	Approach	946	31	N/A	0.65	
		Depart	755	31	N/A	0.65		Depart	1,479	31	N/A	0.65	
	Mission Gorge Rd & Cottonwood Ave	NB	Approach	190	7.7	70	2.10	SB	Approach	45	7.7	70	2.10
			Depart	155	23.9	N/A	1.05		Depart	270	22.3	N/A	1.53
Left Turn			120	5.3	80	2.26	Left Turn		50	5.3	80	2.26	
EB		Approach	597	13.7	40	1.52	WB	Approach	1,034	12.4	40	1.68	
		Depart	647	25.6	N/A	0.72		Depart	1,129	25.2	N/A	0.72	
		Left Turn	35	5.1	80	2.27		Left Turn	130	5.1	80	2.27	
NBX		Approach	310	31	N/A	0.65	SBX	Approach	95	31	N/A	0.65	
		Depart	155	31	N/A	0.65		Depart	270	31	N/A	0.65	
EBX		Approach	632	28	N/A	0.69	WBX	Approach	1,164	28	N/A	0.69	
		Depart	647	28	N/A	0.69		Depart	1,129	28	N/A	0.69	
Mission Gorge Rd & Magnolia Ave		NB	Approach	1,261	5.5	55	2.25	SB	Approach	1,571	3.1	55	2.28
			Depart	1,312	20.4	N/A	2.09		Depart	1,857	6.5	N/A	2.18
	Left Turn		270	5.3	80	2.26	Left Turn		343	5.3	80	2.26	
	EB	Approach	400	11.8	55	1.75	WB	Approach	934	9.3	55	2.00	
		Depart	993	25.6	N/A	0.72		Depart	1,224	20.4	N/A	2.09	
		Left Turn	177	5.3	80	2.26		Left Turn	430	1.7	80	2.28	
	NBX	Approach	1,531	31	N/A	0.65	SBX	Approach	1,914	31	N/A	0.65	
		Depart	1,312	31	N/A	0.65		Depart	1,857	31	N/A	0.65	
	EBX	Approach	577	31	N/A	0.65	WBX	Approach	1,364	31	N/A	0.65	
		Depart	993	31	N/A	0.65		Depart	1,224	31	N/A	0.65	
	Woodside Ave N & SR-67 SB Off-Ramp	NB	Approach	458	11.6	40	1.77	SB	Approach	634	12.4	40	1.68
			Depart	0	--	--	--		Depart	1,104	24.1	N/A	0.99
Left Turn			320	0.5	80	2.28	Left Turn		10	5.1	80	2.27	
EB		Approach	160	7.7	70	2.10	WB	Approach	10	7.7	70	2.10	
		Depart	478	10.1	N/A	1.95		Depart	370	18	N/A	1.88	
		Left Turn	0	--	--	--		Left Turn	360	0.5	80	2.28	
NBX		Approach	778	28	N/A	0.69	SBX	Approach	644	28	N/A	0.69	
		Depart	0	--	--	--		Depart	1,104	28	N/A	0.69	
EBX		Approach	160	31	N/A	0.65	WBX	Approach	370	31	N/A	0.65	
		Depart	478	31	N/A	0.65		Depart	370	31	N/A	0.65	

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Princess Joann Rd & Cuyamaca St	NB	Approach	777	7.2	40	2.14	SB	Approach	280	13.1	40	1.59	
		Depart	567	24.1	N/A	0.99		Depart	380	25.2	N/A	0.72	
		Left Turn	0	--	--	--		Left Turn	10	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	10	7.4	70	2.12	
		Depart	230	20	N/A	2.21		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	100	5.1	80	2.27	
	NBX	Approach	777	28	N/A	0.69	SBX	Approach	290	28	N/A	0.69	
		Depart	567	28	N/A	0.69		Depart	380	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	110	28	N/A	0.69	
		Depart	230	28	N/A	0.69		Depart	0	--	--	--	
	Ganley Rd & Fanita Pkwy	NB	Approach	883	4.8	40	2.28	SB	Approach	394	12.4	40	1.68
			Depart	785	21	N/A	1.92		Depart	457	24.8	N/A	0.78
Left Turn			0	--	--	--	Left Turn		5	5.1	80	2.27	
EB		Approach	0	--	--	--	WB	Approach	5	7.4	70	2.12	
		Depart	108	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	63	5.1	80	2.27	
NBX		Approach	883	28	N/A	0.69	SBX	Approach	399	28	N/A	0.69	
		Depart	785	28	N/A	0.69		Depart	457	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	68	28	N/A	0.69	
		Depart	108	28	N/A	0.69		Depart	0	--	--	--	
Woodglen Vista Dr & Cuyamaca St		NB	Approach	982	1	55	2.28	SB	Approach	365	9.8	55	1.97
			Depart	757	14	N/A	1.49		Depart	485	23	N/A	1.32
	Left Turn		10	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	15	11.1	55	1.83	WB	Approach	20	11.1	55	1.83	
		Depart	250	24	N/A	1.02		Depart	20	24.4	N/A	0.90	
		Left Turn	0	--	--	--		Left Turn	115	5.1	80	2.27	
	NBX	Approach	992	28	N/A	0.69	SBX	Approach	370	28	N/A	0.69	
		Depart	757	28	N/A	0.69		Depart	485	28	N/A	0.69	
	EBX	Approach	15	28	N/A	0.69	WBX	Approach	135	28	N/A	0.69	
		Depart	250	28	N/A	0.69		Depart	20	28	N/A	0.69	
	El Nopa; & Cuyamaca St.	NB	Approach	1,087	1	55	2.28	SB	Approach	485	9	55	2.02
			Depart	977	6.5	N/A	2.18		Depart	485	21.7	N/A	1.71
Left Turn			15	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
EB		Approach	10	11.8	55	1.75	WB	Approach	120	11.8	55	1.75	
		Depart	5	27.6	N/A	0.69		Depart	10	27.6	N/A	0.69	
		Left Turn	5	5.3	80	2.26		Left Turn	105	5.3	80	2.26	
NBX		Approach	1,102	28	N/A	0.69	SBX	Approach	490	28	N/A	0.69	
		Depart	987	28	N/A	0.69		Depart	595	28	N/A	0.69	
EBX		Approach	15	31	N/A	0.65	WBX	Approach	120	31	N/A	0.65	
		Depart	120	31	N/A	0.65		Depart	25	31	N/A	0.65	
El Nopal & Magnolia Ave		NB	Approach	1,087	1	55	2.28	SB	Approach	485	9	55	2.02
			Depart	987	6.5	N/A	2.18		Depart	595	21.7	N/A	1.71
	Left Turn		15	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	10	11.8	55	1.75	WB	Approach	15	11.8	55	1.75	
		Depart	120	27.6	N/A	0.69		Depart	25	27.6	N/A	0.69	
		Left Turn	5	5.3	80	2.26		Left Turn	105	5.3	80	2.26	
	NBX	Approach	1,102	28	N/A	0.69	SBX	Approach	490	28	N/A	0.69	
		Depart	987	28	N/A	0.69		Depart	595	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	120	31	N/A	0.65	
		Depart	120	31	N/A	0.65		Depart	25	31	N/A	0.65	
	El Nopal & Los Ranchitos Rd	NB	Approach	220	6.4	70	2.19	SB	Approach	0	--	--	--
			Depart	0	--	--	--		Depart	185	21.5	N/A	1.77
Left Turn			10	5.1	80	2.27	Left Turn		0	--	--	--	
EB		Approach	350	12.4	40	1.68	WB	Approach	461	11.6	40	1.77	
		Depart	555	24.1	N/A	0.99		Depart	471	24.8	N/A	0.78	
		Left Turn	0	--	--	--		Left Turn	170	5.1	80	2.27	
NBX		Approach	230	28	N/A	0.69	SBX	Approach	0	--	--	--	
		Depart	0	--	--	--		Depart	185	28	N/A	0.69	
EBX		Approach	350	28	N/A	0.69	WBX	Approach	631	28	N/A	0.69	
		Depart	555	28	N/A	0.69		Depart	471	28	N/A	0.69	
Lake Canyon Rd & Fanita Pkwy		NB	Approach	963	2.7	40	2.28	SB	Approach	457	11.6	40	1.77
			Depart	946	13.2	N/A	1.58		Depart	510	24.1	N/A	0.99
	Left Turn		0	--	--	--	Left Turn		36	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	76	7.4	70	2.12	
		Depart	129	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	53	5.1	80	2.27	
	NBX	Approach	963	28	N/A	0.69	SBX	Approach	493	28	N/A	0.69	
		Depart	946	28	N/A	0.69		Depart	510	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	129	28	N/A	0.69	
		Depart	129	28	N/A	0.69		Depart	0	--	--	--	
	Beck Dr & Cuyamaca St	NB	Approach	1,167	1	55	2.28	SB	Approach	575	7.6	55	2.11
			Depart	1,107	6.5	N/A	2.18		Depart	640	18.8	N/A	2.01

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Left Turn	10	5.1	80	2.27	WB	Left Turn	5	5.1	80	2.27	
		Approach	10	11.8	55	1.75		Approach	10	11.8	55	1.75	
		Depart	70	27.6	N/A	0.69		Depart	20	27.6	N/A	0.69	
	NBX	Left Turn	0	--	--	--	SBX	Left Turn	60	5.3	80	2.26	
		Approach	1,177	28	N/A	0.69		Approach	580	28	N/A	0.69	
	EBX	Depart	1,107	28	N/A	0.69	WBX	Depart	640	28	N/A	0.69	
		Approach	10	31	N/A	0.65		Approach	70	31	N/A	0.65	
	Mast Blvd & SR-52 WB Ramps	NB	Depart	70	31	N/A	0.65	SB	Depart	20	31	N/A	0.65
			Approach	645	0.4	70	2.28		Approach	0	--	--	--
			Depart	771	1.6	N/A	2.28		Depart	0	--	--	--
		EB	Left Turn	0	--	--	--	WB	Left Turn	0	--	--	--
			Approach	1,743	4.9	40	2.28		Approach	1,096	2.7	40	2.28
Depart			2,383	14.1	N/A	1.48	Depart		355	28.6	N/A	0.68	
NBX		Left Turn	25	5.3	80	2.26	SBX	Left Turn	0	--	--	--	
		Approach	645	31	N/A	0.65		Approach	0	--	--	--	
EBX		Depart	771	31	N/A	0.65	WBX	Depart	0	--	--	--	
		Approach	1,768	31	N/A	0.65		Approach	1,096	31	N/A	0.65	
Mast Blvd & West Hills Pkwy		NB	Depart	2,383	31	N/A	0.65	SB	Depart	355	31	N/A	0.65
			Approach	554	0.7	70	2.28		Approach	120	7.7	70	2.10
	Depart		275	22.3	N/A	1.53	Depart		748	1.6	N/A	2.28	
	EB	Left Turn	280	5.3	80	2.26	WB	Left Turn	75	5.3	80	2.26	
		Approach	2,233	2.7	40	2.28		Approach	786	13.1	40	1.59	
		Depart	2,297	14.1	N/A	1.48		Depart	1,096	27.2	N/A	0.70	
	NBX	Left Turn	150	5.3	80	2.26	SBX	Left Turn	218	5.3	80	2.26	
		Approach	834	31	N/A	0.65		Approach	195	31	N/A	0.65	
	EBX	Depart	275	31	N/A	0.65	WBX	Depart	748	31	N/A	0.65	
		Approach	2,383	31	N/A	0.65		Approach	1,004	31	N/A	0.65	
	Mast Blvd & Fanita Pkwy	NB	Depart	2,297	31	N/A	0.65	SB	Depart	1,096	31	N/A	0.65
			Approach	319	4.2	70	2.28		Approach	471	1.7	70	2.28
Depart			1,013	0.9	N/A	2.28	Depart		265	22.3	N/A	1.53	
EB		Left Turn	80	5.3	80	2.26	WB	Left Turn	97	5.3	80	2.26	
		Approach	1,189	10.6	40	1.89		Approach	621	12.4	40	1.68	
		Depart	1,266	23	N/A	1.32		Depart	904	24.8	N/A	0.78	
NBX		Left Turn	631	0.1	80	2.28	SBX	Left Turn	40	5.1	80	2.27	
		Approach	399	31	N/A	0.65		Approach	568	31	N/A	0.65	
EBX		Depart	1,013	31	N/A	0.65	WBX	Depart	265	31	N/A	0.65	
		Approach	1,820	28	N/A	0.69		Approach	661	28	N/A	0.69	
Mast Blvd & Cuyamaca St		NB	Depart	1,266	28	N/A	0.69	SB	Depart	904	28	N/A	0.69
			Approach	1,189	7.9	55	2.09		Approach	620	10.3	55	1.92
	Depart		1,347	20.4	N/A	2.09	Depart		1,040	24.1	N/A	0.99	
	EB	Left Turn	275	5.3	80	2.26	WB	Left Turn	110	5.3	80	2.26	
		Approach	1,220	5.5	55	2.25		Approach	485	11	55	1.84	
		Depart	1,561	14.8	N/A	1.40		Depart	903	25.6	N/A	0.72	
	NBX	Left Turn	599	0.1	80	2.28	SBX	Left Turn	353	5.3	80	2.26	
		Approach	1,464	31	N/A	0.65		Approach	730	31	N/A	0.65	
	EBX	Depart	1,347	31	N/A	0.65	WBX	Depart	1,040	31	N/A	0.65	
		Approach	1,819	31	N/A	0.65		Approach	838	31	N/A	0.65	
	Riverford Rd & SR-67 SB Ramps	NB	Depart	1,561	31	N/A	0.65	SB	Depart	903	31	N/A	0.65
			Approach	866	4.8	40	2.28		Approach	1,102	2.7	40	2.28
Depart			1,010	13.2	N/A	1.58	Depart		322	25.2	N/A	0.72	
EB		Left Turn	300	1.7	80	2.28	WB	Left Turn	0	--	--	--	
		Approach	0	--	--	--		Approach	144	7.7	70	2.10	
		Depart	0	--	--	--		Depart	1,100	0.9	N/A	2.28	
NBX		Left Turn	0	--	--	--	SBX	Left Turn	20	5.3	80	2.26	
		Approach	1,166	28	N/A	0.69		Approach	1,102	28	N/A	0.69	
EBX		Depart	1,010	28	N/A	0.69	WBX	Depart	322	28	N/A	0.69	
		Approach	0	--	--	--		Approach	164	31	N/A	0.65	
Riverford Rd & Woodside Ave		NB	Depart	0	--	--	--	SB	Depart	1,100	31	N/A	0.65
			Approach	0	--	--	--		Approach	40	7.4	70	2.12
	Depart		1,106	0.9	N/A	2.28	Depart		0	--	--	--	
	EB	Left Turn	0	--	--	--	WB	Left Turn	237	1.7	80	2.28	
		Approach	740	7.2	40	2.14		Approach	486	11.6	40	1.77	
		Depart	977	13.2	N/A	1.58		Depart	150	25.9	N/A	0.71	
	NBX	Left Turn	730	0	80	2.28	SBX	Left Turn	0	--	--	--	
		Approach	0	--	--	--		Approach	277	28	N/A	0.69	
	EBX	Depart	1,106	28	N/A	0.69	WBX	Depart	0	--	--	--	
		Approach	1,470	28	N/A	0.69		Approach	486	28	N/A	0.69	
	Mission Gorge Rd & West Hills Pkwy	NB	Depart	977	28	N/A	0.69	SB	Depart	150	28	N/A	0.69
			Approach	100	7.7	70	2.10		Approach	465	1.7	70	2.28
Depart			951	0.9	N/A	2.28	Depart		230	22.3	N/A	1.53	
Left Turn			30	5.3	80	2.26	Left Turn		260	5.3	80	2.26	
		Approach	965	12.3	40	1.69		Approach	765	13.1	40	1.59	

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Depart	1,200	27.2	N/A	0.70	WB	Depart	920	28.1	N/A	0.68	
		Left Turn	631	0.5	80	2.28		Left Turn	85	5.3	80	2.26	
	NBX	Approach	130	31	N/A	0.65	SBX	Approach	725	31	N/A	0.65	
		Depart	951	31	N/A	0.65		Depart	230	31	N/A	0.65	
	EBX	Approach	1,596	31	N/A	0.65	WBX	Approach	850	31	N/A	0.65	
		Depart	1,200	31	N/A	0.65		Depart	920	31	N/A	0.65	
Mission Gorge Rd & Carlton Hills Blvd	NB	Approach	115	7.7	70	2.10	SB	Approach	792	0.2	70	2.28	
		Depart	1,659	0.9	N/A	2.28		Depart	440	10.1	N/A	1.95	
		Left Turn	60	5.3	80	2.26		Left Turn	442	1.7	80	2.28	
	EB	Approach	1,510	11.1	40	1.83	WB	Approach	1,666	11.1	40	1.83	
		Depart	1,827	26	N/A	0.71		Depart	1,741	27.2	N/A	0.70	
		Left Turn	932	0.2	80	2.28		Left Turn	150	5.3	80	2.26	
	NBX	Approach	175	31	N/A	0.65	SBX	Approach	1,234	31	N/A	0.65	
		Depart	1,659	31	N/A	0.65		Depart	440	31	N/A	0.65	
	EBX	Approach	2,442	31	N/A	0.65	WBX	Approach	1,816	31	N/A	0.65	
		Depart	1,827	31	N/A	0.65		Depart	1,741	31	N/A	0.65	
	Mission Gorge Rd & Town Center Pkwy	NB	Approach	490	1.7	70	2.28	SB	Approach	730	0.2	70	2.28
			Depart	1,285	0.9	N/A	2.28		Depart	605	3.2	N/A	2.28
Left Turn			390	5.3	80	2.26	Left Turn		340	5.3	80	2.26	
EB		Approach	1,391	11.6	40	1.77	WB	Approach	1,090	12.4	40	1.68	
		Depart	1,711	24.1	N/A	0.99		Depart	1,645	24.1	N/A	0.99	
		Left Turn	620	0.5	80	2.28		Left Turn	195	5.1	80	2.27	
NBX		Approach	880	31	N/A	0.65	SBX	Approach	1,070	31	N/A	0.65	
		Depart	1,285	31	N/A	0.65		Depart	605	31	N/A	0.65	
EBX		Approach	2,011	28	N/A	0.69	WBX	Approach	1,285	28	N/A	0.69	
		Depart	1,711	28	N/A	0.69		Depart	1,645	28	N/A	0.69	
Mission Gorge Rd & Cuyamaca St		NB	Approach	1,436	0.2	70	2.28	SB	Approach	1,140	4.2	70	2.28
			Depart	1,714	1.2	N/A	2.28		Depart	1,544	5.1	N/A	2.27
	Left Turn		735	0.5	80	2.28	Left Turn		348	5.3	80	2.26	
	EB	Approach	1,083	13.1	40	1.59	WB	Approach	761	13.9	40	1.50	
		Depart	1,437	28.1	N/A	0.68		Depart	1,514	27.2	N/A	0.70	
		Left Turn	413	1.7	80	2.28		Left Turn	293	5.3	80	2.26	
	NBX	Approach	2,171	31	N/A	0.65	SBX	Approach	1,488	31	N/A	0.65	
		Depart	1,714	31	N/A	0.65		Depart	1,544	31	N/A	0.65	
	EBX	Approach	1,496	31	N/A	0.65	WBX	Approach	1,054	31	N/A	0.65	
		Depart	1,437	31	N/A	0.65		Depart	1,514	31	N/A	0.65	
	Mission Gorge Rd & Cottonwood Ave	NB	Approach	290	6.6	70	2.18	SB	Approach	50	7.7	70	2.10
			Depart	260	22.3	N/A	1.53		Depart	350	18	N/A	1.88
Left Turn			155	5.3	80	2.26	Left Turn		20	5.3	80	2.26	
EB		Approach	1,451	11.6	40	1.77	WB	Approach	987	12.4	40	1.68	
		Depart	1,496	24.8	N/A	0.78		Depart	1,087	25.2	N/A	0.72	
		Left Turn	85	5.1	80	2.27		Left Turn	155	5.1	80	2.27	
NBX		Approach	445	31	N/A	0.65	SBX	Approach	70	31	N/A	0.65	
		Depart	260	31	N/A	0.65		Depart	350	31	N/A	0.65	
EBX		Approach	1,536	28	N/A	0.69	WBX	Approach	1,142	28	N/A	0.69	
		Depart	1,496	28	N/A	0.69		Depart	1,087	28	N/A	0.69	
Mission Gorge Rd & Magnolia Ave		NB	Approach	1,642	1.6	55	2.28	SB	Approach	903	9.3	55	2.00
			Depart	1,913	6.5	N/A	2.18		Depart	1,701	9.3	N/A	2.00
	Left Turn		310	5.3	80	2.26	Left Turn		288	5.3	80	2.26	
	EB	Approach	1,135	7.9	55	2.09	WB	Approach	980	9.3	55	2.00	
		Depart	1,483	14.8	N/A	1.40		Depart	1,177	24.1	N/A	0.99	
		Left Turn	421	1.7	80	2.28		Left Turn	595	1.7	80	2.28	
	NBX	Approach	1,952	31	N/A	0.65	SBX	Approach	1,191	31	N/A	0.65	
		Depart	1,913	31	N/A	0.65		Depart	1,701	31	N/A	0.65	
	EBX	Approach	1,556	31	N/A	0.65	WBX	Approach	1,575	31	N/A	0.65	
		Depart	1,483	31	N/A	0.65		Depart	1,177	31	N/A	0.65	
	Woodside Ave N & SR-67 SB Off-Ramp	NB	Approach	963	2.7	40	2.28	SB	Approach	565	13.1	40	1.59
			Depart	0	--	--	--		Depart	1,045	24.1	N/A	0.99
Left Turn			190	5.1	80	2.27	Left Turn		10	5.1	80	2.27	
EB		Approach	295	6.6	70	2.18	WB	Approach	5	7.7	70	2.10	
		Depart	1,008	0.9	N/A	2.28		Depart	205	22.3	N/A	1.53	
		Left Turn	0	--	--	--		Left Turn	230	1.7	80	2.28	
NBX		Approach	1,153	28	N/A	0.69	SBX	Approach	575	28	N/A	0.69	
		Depart	0	--	--	--		Depart	1,045	28	N/A	0.69	
EBX		Approach	295	31	N/A	0.65	WBX	Approach	235	31	N/A	0.65	
		Depart	1,008	31	N/A	0.65		Depart	205	31	N/A	0.65	

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Princess Joann Rd & Cuyamaca St	NB	Approach	269	13.1	40	1.59	SB	Approach	464	11.6	40	1.77	
		Depart	204	25.6	N/A	0.72		Depart	684	23	N/A	1.32	
		Left Turn	0	--	--	--		Left Turn	10	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	15	7.4	70	2.12	
		Depart	90	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	220	1.7	80	2.28	
	NBX	Approach	269	28	N/A	0.69	SBX	Approach	474	28	N/A	0.69	
		Depart	204	28	N/A	0.69		Depart	684	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	235	28	N/A	0.69	
		Depart	90	28	N/A	0.69		Depart	0	--	--	--	
	Ganley Rd & Fanita Pkwy	NB	Approach	343	12.4	40	1.68	SB	Approach	657	9.2	40	2.01
			Depart	290	25.6	N/A	0.72		Depart	785	21	N/A	1.92
Left Turn			0	--	--	--	Left Turn		5	5.1	80	2.27	
EB		Approach	0	--	--	--	WB	Approach	5	7.4	70	2.12	
		Depart	63	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	128	5.1	80	2.27	
NBX		Approach	343	28	N/A	0.69	SBX	Approach	662	28	N/A	0.69	
		Depart	290	28	N/A	0.69		Depart	785	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	133	28	N/A	0.69	
		Depart	63	28	N/A	0.69		Depart	0	--	--	--	
Woodglen Vista Dr & Cuyamaca St		NB	Approach	324	9.8	55	1.97	SB	Approach	659	5.4	55	2.25
			Depart	259	24	N/A	1.02		Depart	909	6.5	N/A	2.18
	Left Turn		5	5.1	80	2.27	Left Turn		10	5.1	80	2.27	
	EB	Approach	20	11.1	55	1.83	WB	Approach	5	11.1	55	1.83	
		Depart	85	24.4	N/A	0.90		Depart	5	24.4	N/A	0.90	
		Left Turn	0	--	--	--		Left Turn	235	1.7	80	2.28	
	NBX	Approach	329	28	N/A	0.69	SBX	Approach	669	28	N/A	0.69	
		Depart	259	28	N/A	0.69		Depart	909	28	N/A	0.69	
	EBX	Approach	20	28	N/A	0.69	WBX	Approach	240	28	N/A	0.69	
		Depart	85	28	N/A	0.69		Depart	5	28	N/A	0.69	
	El Nopa; & Cuyamaca St.	NB	Approach	369	9.8	55	1.97	SB	Approach	899	1.6	55	2.28
			Depart	319	23.6	N/A	1.14		Depart	1,169	6.5	N/A	2.18
Left Turn			5	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
EB		Approach	15	11.8	55	1.75	WB	Approach	10	11.8	55	1.75	
		Depart	5	27.6	N/A	0.69		Depart	15	27.6	N/A	0.69	
		Left Turn	0	--	--	--		Left Turn	265	1.7	80	2.28	
NBX		Approach	374	28	N/A	0.69	SBX	Approach	904	28	N/A	0.69	
		Depart	324	28	N/A	0.69		Depart	1,169	28	N/A	0.69	
EBX		Approach	15	31	N/A	0.65	WBX	Approach	275	31	N/A	0.65	
		Depart	60	31	N/A	0.65		Depart	15	31	N/A	0.65	
El Nopal & Magnolia Ave		NB	Approach	369	9.8	55	1.97	SB	Approach	899	1.6	55	2.28
			Depart	324	23.6	N/A	1.14		Depart	1,169	6.5	N/A	2.18
	Left Turn		5	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	15	11.8	55	1.75	WB	Approach	10	11.8	55	1.75	
		Depart	60	27.6	N/A	0.69		Depart	15	27.6	N/A	0.69	
		Left Turn	0	--	--	--		Left Turn	265	1.7	80	2.28	
	NBX	Approach	374	28	N/A	0.69	SBX	Approach	904	28	N/A	0.69	
		Depart	324	28	N/A	0.69		Depart	1,169	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	275	31	N/A	0.65	
		Depart	60	31	N/A	0.65		Depart	15	31	N/A	0.65	
	El Nopal & Los Ranchitos Rd	NB	Approach	250	6.4	70	2.19	SB	Approach	0	--	--	--
			Depart	0	--	--	--		Depart	210	20	N/A	2.21
Left Turn			25	5.1	80	2.27	Left Turn		0	--	--	--	
EB		Approach	407	11.6	40	1.77	WB	Approach	285	13.1	40	1.59	
		Depart	637	23	N/A	1.32		Depart	310	25.2	N/A	0.72	
		Left Turn	0	--	--	--		Left Turn	190	5.1	80	2.27	
NBX		Approach	275	28	N/A	0.69	SBX	Approach	0	--	--	--	
		Depart	0	--	--	--		Depart	210	28	N/A	0.69	
EBX		Approach	407	28	N/A	0.69	WBX	Approach	475	28	N/A	0.69	
		Depart	637	28	N/A	0.69		Depart	310	28	N/A	0.69	
Lake Canyon Rd & Fanita Pkwy		NB	Approach	373	12.4	40	1.68	SB	Approach	728	7.2	40	2.14
			Depart	324	25.2	N/A	0.72		Depart	818	17.8	N/A	1.84
	Left Turn		0	--	--	--	Left Turn		51	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	26	7.4	70	2.12	
		Depart	126	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	90	5.1	80	2.27	
	NBX	Approach	373	28	N/A	0.69	SBX	Approach	779	28	N/A	0.69	
		Depart	324	28	N/A	0.69		Depart	818	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	116	28	N/A	0.69	
		Depart	126	28	N/A	0.69		Depart	0	--	--	--	
	Beck Dr & Cuyamaca St	NB	Approach	389	9.8	55	1.97	SB	Approach	1,119	1	55	2.28
			Depart	359	23.6	N/A	1.14		Depart	1,229	6.5	N/A	2.18

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Mast Blvd & SR-52 WB Ramps	EB	Left Turn	5	5.1	80	2.27	WB	Left Turn	5	5.1	80	2.27	
		Approach	15	11.8	55	1.75		Approach	10	11.8	55	1.75	
		Depart	40	27.6	N/A	0.69		Depart	10	27.6	N/A	0.69	
	NBX	Left Turn	0	--	--	--	SBX	Left Turn	95	5.3	80	2.26	
		Approach	394	28	N/A	0.69		Approach	1,124	28	N/A	0.69	
		Depart	359	28	N/A	0.69		Depart	1,229	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	105	31	N/A	0.65	
		Depart	40	31	N/A	0.65		Depart	10	31	N/A	0.65	
	Mast Blvd & West Hills Pkwy	NB	Approach	75	7.7	70	2.10	SB	Approach	0	--	--	--
			Depart	2,876	0.9	N/A	2.28		Depart	0	--	--	--
			Left Turn	10	5.3	80	2.26		Left Turn	0	--	--	--
		EB	Approach	504	13.9	40	1.50	WB	Approach	3,146	2.7	40	2.28
Depart			579	29.1	N/A	0.67	Depart		300	29.1	N/A	0.67	
Left Turn			20	5.3	80	2.26	Left Turn		0	--	--	--	
NBX		Approach	85	31	N/A	0.65	SBX	Approach	0	--	--	--	
		Depart	2,876	31	N/A	0.65		Depart	0	--	--	--	
EBX		Approach	524	31	N/A	0.65	WBX	Approach	3,146	31	N/A	0.65	
		Depart	579	31	N/A	0.65		Depart	300	31	N/A	0.65	
Mast Blvd & Fanita Pkwy		NB	Approach	451	1.7	70	2.28	SB	Approach	110	7.7	70	2.10
			Depart	155	23.9	N/A	1.05		Depart	305	18	N/A	1.88
	Left Turn		1,200	0.1	80	2.28	Left Turn		10	5.3	80	2.26	
	EB	Approach	459	13.9	40	1.50	WB	Approach	1,866	2.7	40	2.28	
		Depart	795	28.6	N/A	0.68		Depart	3,146	14.1	N/A	1.48	
		Left Turn	120	5.3	80	2.26		Left Turn	185	5.3	80	2.26	
	NBX	Approach	1,651	31	N/A	0.65	SBX	Approach	120	31	N/A	0.65	
		Depart	155	31	N/A	0.65		Depart	305	31	N/A	0.65	
	EBX	Approach	579	31	N/A	0.65	WBX	Approach	2,051	31	N/A	0.65	
		Depart	795	31	N/A	0.65		Depart	3,146	31	N/A	0.65	
	Mast Blvd & Cuyamaca St	NB	Approach	158	7.7	70	2.10	SB	Approach	751	0.2	70	2.28
			Depart	419	10.1	N/A	1.95		Depart	543	5.1	N/A	2.27
Left Turn			70	5.3	80	2.26	Left Turn		71	5.3	80	2.26	
EB		Approach	731	12.4	40	1.68	WB	Approach	1,588	7.2	40	2.14	
		Depart	672	25.2	N/A	0.72		Depart	2,083	13.2	N/A	1.58	
		Left Turn	228	1.7	80	2.28		Left Turn	120	5.1	80	2.27	
NBX		Approach	228	31	N/A	0.65	SBX	Approach	822	31	N/A	0.65	
		Depart	419	31	N/A	0.65		Depart	543	31	N/A	0.65	
EBX		Approach	959	28	N/A	0.69	WBX	Approach	1,708	28	N/A	0.69	
		Depart	672	28	N/A	0.69		Depart	2,083	28	N/A	0.69	
Riverford Rd & SR-67 SB Ramps		NB	Approach	414	11	55	1.84	SB	Approach	1,109	7.9	55	2.09
			Depart	454	27.1	N/A	0.70		Depart	1,260	20.4	N/A	2.09
	Left Turn		210	5.3	80	2.26	Left Turn		90	5.3	80	2.26	
	EB	Approach	705	10.3	55	1.92	WB	Approach	865	9.3	55	2.00	
		Depart	731	26.7	N/A	0.70		Depart	1,490	14.8	N/A	1.40	
		Left Turn	161	5.3	80	2.26		Left Turn	381	5.3	80	2.26	
	NBX	Approach	624	31	N/A	0.65	SBX	Approach	1,199	31	N/A	0.65	
		Depart	454	31	N/A	0.65		Depart	1,260	31	N/A	0.65	
	EBX	Approach	866	31	N/A	0.65	WBX	Approach	1,246	31	N/A	0.65	
		Depart	731	31	N/A	0.65		Depart	1,490	31	N/A	0.65	
	Riverford Rd & Woodside Ave	NB	Approach	631	9.2	40	2.01	SB	Approach	1,078	2.7	40	2.28
			Depart	827	17.8	N/A	1.84		Depart	428	24.8	N/A	0.78
Left Turn			460	0.2	80	2.28	Left Turn		0	--	--	--	
EB		Approach	0	--	--	--	WB	Approach	196	7.7	70	2.10	
		Depart	0	--	--	--		Depart	1,130	0.9	N/A	2.28	
		Left Turn	0	--	--	--		Left Turn	20	5.3	80	2.26	
NBX		Approach	1,091	28	N/A	0.69	SBX	Approach	1,078	28	N/A	0.69	
		Depart	827	28	N/A	0.69		Depart	428	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	216	31	N/A	0.65	
		Depart	0	--	--	--		Depart	1,130	31	N/A	0.65	
Mission Gorge Rd & West Hills Pkwy		NB	Approach	0	--	--	--	SB	Approach	50	7.4	70	2.12
			Depart	1,091	0.9	N/A	2.28		Depart	0	--	--	--
	Left Turn		0	--	--	--	Left Turn		328	0.5	80	2.28	
	EB	Approach	350	12.4	40	1.68	WB	Approach	701	7.2	40	2.14	
		Depart	678	23	N/A	1.32		Depart	180	25.9	N/A	0.71	
		Left Turn	520	0.1	80	2.28		Left Turn	0	--	--	--	
	NBX	Approach	0	--	--	--	SBX	Approach	378	28	N/A	0.69	
		Depart	1,091	28	N/A	0.69		Depart	0	--	--	--	
	EBX	Approach	870	28	N/A	0.69	WBX	Approach	701	28	N/A	0.69	
		Depart	678	28	N/A	0.69		Depart	180	28	N/A	0.69	
	Mast Blvd & SR-52 WB Ramps	NB	Approach	140	7.7	70	2.10	SB	Approach	526	0.7	70	2.28
			Depart	1,624	0.9	N/A	2.28		Depart	220	22.3	N/A	1.53
Left Turn			40	5.3	80	2.26	Left Turn		175	5.3	80	2.26	
Approach			490	13.9	40	1.50	Approach		2,325	2.7	40	2.28	

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Depart	665	28.6	N/A	0.68	WB	Depart	1,596	23.5	N/A	1.17	
		Left Turn	329	5.3	80	2.26		Left Turn	80	5.3	80	2.26	
	NBX	Approach	180	31	N/A	0.65	SBX	Approach	701	31	N/A	0.65	
		Depart	1,624	31	N/A	0.65		Depart	220	31	N/A	0.65	
	EBX	Approach	819	31	N/A	0.65	WBX	Approach	2,405	31	N/A	0.65	
		Depart	665	31	N/A	0.65		Depart	1,596	31	N/A	0.65	
Mission Gorge Rd & Carlton Hills Blvd	NB	Approach	50	7.7	70	2.10	SB	Approach	1,175	0.1	70	2.28	
		Depart	1,228	0.9	N/A	2.28		Depart	195	23.9	N/A	1.05	
		Left Turn	40	5.3	80	2.26		Left Turn	436	1.7	80	2.28	
	EB	Approach	879	13.9	40	1.50	WB	Approach	1,805	9.6	40	1.98	
		Depart	1,235	28.1	N/A	0.68		Depart	2,512	19.5	N/A	2.13	
		Left Turn	760	0.5	80	2.28		Left Turn	25	5.3	80	2.26	
	NBX	Approach	90	31	N/A	0.65	SBX	Approach	1,611	31	N/A	0.65	
		Depart	1,228	31	N/A	0.65		Depart	195	31	N/A	0.65	
	EBX	Approach	1,639	31	N/A	0.65	WBX	Approach	1,830	31	N/A	0.65	
		Depart	1,235	31	N/A	0.65		Depart	2,512	31	N/A	0.65	
	Mission Gorge Rd & Town Center Pkwy	NB	Approach	185	7.7	70	2.10	SB	Approach	410	1.7	70	2.28
			Depart	560	5.1	N/A	2.27		Depart	420	10.1	N/A	1.95
Left Turn			210	5.3	80	2.26	Left Turn		110	5.3	80	2.26	
EB		Approach	834	13.1	40	1.59	WB	Approach	1,027	12.4	40	1.68	
		Depart	789	25.6	N/A	0.72		Depart	1,407	24.8	N/A	0.78	
		Left Turn	300	5.1	80	2.27		Left Turn	100	5.1	80	2.27	
NBX		Approach	395	31	N/A	0.65	SBX	Approach	520	31	N/A	0.65	
		Depart	560	31	N/A	0.65		Depart	420	31	N/A	0.65	
EBX		Approach	1,134	28	N/A	0.69	WBX	Approach	1,127	28	N/A	0.69	
		Depart	789	28	N/A	0.69		Depart	1,407	28	N/A	0.69	
Mission Gorge Rd & Cuyamaca St		NB	Approach	723	4.2	70	2.28	SB	Approach	786	6.6	70	2.18
			Depart	912	10.1	N/A	1.95		Depart	1,122	18	N/A	1.88
	Left Turn		700	0.5	80	2.28	Left Turn		151	5.3	80	2.26	
	EB	Approach	759	13.9	40	1.50	WB	Approach	738	13.9	40	1.50	
		Depart	741	29.1	N/A	0.67		Depart	1,457	28.1	N/A	0.68	
		Left Turn	179	5.3	80	2.26		Left Turn	196	5.3	80	2.26	
	NBX	Approach	1,423	31	N/A	0.65	SBX	Approach	937	31	N/A	0.65	
		Depart	912	31	N/A	0.65		Depart	1,122	31	N/A	0.65	
	EBX	Approach	938	31	N/A	0.65	WBX	Approach	934	31	N/A	0.65	
		Depart	741	31	N/A	0.65		Depart	1,457	31	N/A	0.65	
	Mission Gorge Rd & Cottonwood Ave	NB	Approach	190	7.7	70	2.10	SB	Approach	65	7.7	70	2.10
			Depart	155	23.9	N/A	1.05		Depart	270	22.3	N/A	1.53
Left Turn			120	5.3	80	2.26	Left Turn		30	5.3	80	2.26	
EB		Approach	582	13.7	40	1.52	WB	Approach	1,023	12.4	40	1.68	
		Depart	612	25.6	N/A	0.72		Depart	1,138	25.2	N/A	0.72	
		Left Turn	35	5.1	80	2.27		Left Turn	130	5.1	80	2.27	
NBX		Approach	310	31	N/A	0.65	SBX	Approach	95	31	N/A	0.65	
		Depart	155	31	N/A	0.65		Depart	270	31	N/A	0.65	
EBX		Approach	617	28	N/A	0.69	WBX	Approach	1,153	28	N/A	0.69	
		Depart	612	28	N/A	0.69		Depart	1,138	28	N/A	0.69	
Mission Gorge Rd & Magnolia Ave		NB	Approach	1,243	5.5	55	2.25	SB	Approach	1,547	3.1	55	2.28
			Depart	1,276	20.4	N/A	2.09		Depart	1,844	6.5	N/A	2.18
	Left Turn		270	5.3	80	2.26	Left Turn		341	5.3	80	2.26	
	EB	Approach	400	11.8	55	1.75	WB	Approach	931	9.3	55	2.00	
		Depart	991	25.6	N/A	0.72		Depart	1,213	20.4	N/A	2.09	
		Left Turn	162	5.3	80	2.26		Left Turn	430	1.7	80	2.28	
	NBX	Approach	1,513	31	N/A	0.65	SBX	Approach	1,888	31	N/A	0.65	
		Depart	1,276	31	N/A	0.65		Depart	1,844	31	N/A	0.65	
	EBX	Approach	562	31	N/A	0.65	WBX	Approach	1,361	31	N/A	0.65	
		Depart	991	31	N/A	0.65		Depart	1,213	31	N/A	0.65	
	Woodside Ave N & SR-67 SB Off-Ramp	NB	Approach	456	11.6	40	1.77	SB	Approach	631	12.4	40	1.68
			Depart	0	--	--	--		Depart	1,101	24.1	N/A	0.99
Left Turn			320	0.5	80	2.28	Left Turn		10	5.1	80	2.27	
EB		Approach	160	7.7	70	2.10	WB	Approach	10	7.7	70	2.10	
		Depart	476	10.1	N/A	1.95		Depart	370	18	N/A	1.88	
		Left Turn	0	--	--	--		Left Turn	360	0.5	80	2.28	
NBX		Approach	776	28	N/A	0.69	SBX	Approach	641	28	N/A	0.69	
		Depart	0	--	--	--		Depart	1,101	28	N/A	0.69	
EBX		Approach	160	31	N/A	0.65	WBX	Approach	370	31	N/A	0.65	
		Depart	476	31	N/A	0.65		Depart	370	31	N/A	0.65	

LSA Associates, Inc. CALINE4 Modeling Data - PM - 2035 With Project (Without School)

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Princess Joann Rd & Cuyamaca St	NB	Approach	793	7.2	40	2.14	SB	Approach	276	13.1	40	1.59	
		Depart	583	24.1	N/A	0.99		Depart	376	25.2	N/A	0.72	
		Left Turn	0	--	--	--		Left Turn	10	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	10	7.4	70	2.12	
		Depart	230	20	N/A	2.21		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	100	5.1	80	2.27	
	NBX	Approach	793	28	N/A	0.69	SBX	Approach	286	28	N/A	0.69	
		Depart	583	28	N/A	0.69		Depart	376	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	110	28	N/A	0.69	
		Depart	230	28	N/A	0.69		Depart	0	--	--	--	
	Ganley Rd & Fanita Pkwy	NB	Approach	908	2.7	40	2.28	SB	Approach	388	12.4	40	1.68
			Depart	810	17.8	N/A	1.84		Depart	451	24.8	N/A	0.78
Left Turn			0	--	--	--	Left Turn		5	5.1	80	2.27	
EB		Approach	0	--	--	--	WB	Approach	5	7.4	70	2.12	
		Depart	108	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	63	5.1	80	2.27	
NBX		Approach	908	28	N/A	0.69	SBX	Approach	393	28	N/A	0.69	
		Depart	810	28	N/A	0.69		Depart	451	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	68	28	N/A	0.69	
		Depart	108	28	N/A	0.69		Depart	0	--	--	--	
Woodglen Vista Dr & Cuyamaca St		NB	Approach	998	1	55	2.28	SB	Approach	361	9.8	55	1.97
			Depart	773	14	N/A	1.49		Depart	481	23	N/A	1.32
	Left Turn		10	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	15	11.1	55	1.83	WB	Approach	20	11.1	55	1.83	
		Depart	250	24	N/A	1.02		Depart	20	24.4	N/A	0.90	
		Left Turn	0	--	--	--		Left Turn	115	5.1	80	2.27	
	NBX	Approach	1,008	28	N/A	0.69	SBX	Approach	366	28	N/A	0.69	
		Depart	773	28	N/A	0.69		Depart	481	28	N/A	0.69	
	EBX	Approach	15	28	N/A	0.69	WBX	Approach	135	28	N/A	0.69	
		Depart	250	28	N/A	0.69		Depart	20	28	N/A	0.69	
	El Nopa; & Cuyamaca St.	NB	Approach	1,103	1	55	2.28	SB	Approach	481	9	55	2.02
			Depart	1,003	6.5	N/A	2.18		Depart	591	21.7	N/A	1.71
Left Turn			15	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
EB		Approach	10	11.8	55	1.75	WB	Approach	15	11.8	55	1.75	
		Depart	120	27.6	N/A	0.69		Depart	25	27.6	N/A	0.69	
		Left Turn	5	5.3	80	2.26		Left Turn	105	5.3	80	2.26	
NBX		Approach	1,118	28	N/A	0.69	SBX	Approach	486	28	N/A	0.69	
		Depart	1,003	28	N/A	0.69		Depart	591	28	N/A	0.69	
EBX		Approach	15	31	N/A	0.65	WBX	Approach	120	31	N/A	0.65	
		Depart	120	31	N/A	0.65		Depart	25	31	N/A	0.65	
El Nopal & Magnolia Ave		NB	Approach	1,103	1	55	2.28	SB	Approach	481	9	55	2.02
			Depart	1,003	6.5	N/A	2.18		Depart	591	21.7	N/A	1.71
	Left Turn		15	5.1	80	2.27	Left Turn		5	5.1	80	2.27	
	EB	Approach	10	11.8	55	1.75	WB	Approach	15	11.8	55	1.75	
		Depart	120	27.6	N/A	0.69		Depart	25	27.6	N/A	0.69	
		Left Turn	5	5.3	80	2.26		Left Turn	105	5.3	80	2.26	
	NBX	Approach	1,118	28	N/A	0.69	SBX	Approach	486	28	N/A	0.69	
		Depart	1,003	28	N/A	0.69		Depart	591	28	N/A	0.69	
	EBX	Approach	15	31	N/A	0.65	WBX	Approach	120	31	N/A	0.65	
		Depart	120	31	N/A	0.65		Depart	25	31	N/A	0.65	
	El Nopal & Los Ranchitos Rd	NB	Approach	220	6.4	70	2.19	SB	Approach	0	--	--	--
			Depart	0	--	--	--		Depart	195	21.5	N/A	1.77
Left Turn			10	5.1	80	2.27	Left Turn		0	--	--	--	
EB		Approach	358	12.4	40	1.68	WB	Approach	466	11.6	40	1.77	
		Depart	553	24.1	N/A	0.99		Depart	476	24.8	N/A	0.78	
		Left Turn	0	--	--	--		Left Turn	170	5.1	80	2.27	
NBX		Approach	230	28	N/A	0.69	SBX	Approach	0	--	--	--	
		Depart	0	--	--	--		Depart	195	28	N/A	0.69	
EBX		Approach	358	28	N/A	0.69	WBX	Approach	636	28	N/A	0.69	
		Depart	553	28	N/A	0.69		Depart	476	28	N/A	0.69	
Lake Canyon Rd & Fanita Pkwy		NB	Approach	985	2.7	40	2.28	SB	Approach	452	11.6	40	1.77
			Depart	971	13.2	N/A	1.58		Depart	505	24.1	N/A	0.99
	Left Turn		0	--	--	--	Left Turn		35	5.1	80	2.27	
	EB	Approach	0	--	--	--	WB	Approach	79	7.4	70	2.12	
		Depart	128	21.5	N/A	1.77		Depart	0	--	--	--	
		Left Turn	0	--	--	--		Left Turn	53	5.1	80	2.27	
	NBX	Approach	985	28	N/A	0.69	SBX	Approach	487	28	N/A	0.69	
		Depart	971	28	N/A	0.69		Depart	505	28	N/A	0.69	
	EBX	Approach	0	--	--	--	WBX	Approach	132	28	N/A	0.69	
		Depart	128	28	N/A	0.69		Depart	0	--	--	--	
	Beck Dr & Cuyamaca St	NB	Approach	1,183	1	55	2.28	SB	Approach	571	7.6	55	2.11
			Depart	1,123	6.5	N/A	2.18		Depart	636	18.8	N/A	2.01

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
Mast Blvd & SR-52 WB Ramps	EB	Left Turn	10	5.1	80	2.27	WB	Left Turn	5	5.1	80	2.27	
		Approach	10	11.8	55	1.75		Approach	10	11.8	55	1.75	
		Depart	70	27.6	N/A	0.69		Depart	20	27.6	N/A	0.69	
	NBX	Left Turn	0	--	--	--	SBX	Left Turn	60	5.3	80	2.26	
		Approach	1,193	28	N/A	0.69		Approach	576	28	N/A	0.69	
		Depart	1,123	28	N/A	0.69		Depart	636	28	N/A	0.69	
	EBX	Approach	10	31	N/A	0.65	WBX	Approach	70	31	N/A	0.65	
		Depart	70	31	N/A	0.65		Depart	20	31	N/A	0.65	
	Mast Blvd & West Hills Pkwy	NB	Approach	645	0.4	70	2.28	SB	Approach	0	--	--	--
			Depart	768	1.6	N/A	2.28		Depart	0	--	--	--
			Left Turn	0	--	--	--		Left Turn	0	--	--	--
		EB	Approach	1,756	4.9	40	2.28	WB	Approach	1,093	2.7	40	2.28
Depart			2,396	14.1	N/A	1.48	Depart		355	28.6	N/A	0.68	
Left Turn			25	5.3	80	2.26	Left Turn		0	--	--	--	
NBX		Approach	645	31	N/A	0.65	SBX	Approach	0	--	--	--	
		Depart	768	31	N/A	0.65		Depart	0	--	--	--	
EBX		Approach	1,781	31	N/A	0.65	WBX	Approach	1,093	31	N/A	0.65	
		Depart	2,396	31	N/A	0.65		Depart	355	31	N/A	0.65	
Mast Blvd & Fanita Pkwy		NB	Approach	558	0.7	70	2.28	SB	Approach	120	7.7	70	2.10
			Depart	275	22.3	N/A	1.53		Depart	746	1.6	N/A	2.28
	Left Turn		280	5.3	80	2.26	Left Turn		75	5.3	80	2.26	
	EB	Approach	2,246	2.7	40	2.28	WB	Approach	783	13.1	40	1.59	
		Depart	2,314	14.1	N/A	1.48		Depart	1,093	27.2	N/A	0.70	
		Left Turn	150	5.3	80	2.26		Left Turn	216	5.3	80	2.26	
	NBX	Approach	838	31	N/A	0.65	SBX	Approach	195	31	N/A	0.65	
		Depart	275	31	N/A	0.65		Depart	746	31	N/A	0.65	
	EBX	Approach	2,396	31	N/A	0.65	WBX	Approach	999	31	N/A	0.65	
		Depart	2,314	31	N/A	0.65		Depart	1,093	31	N/A	0.65	
	Mast Blvd & Cuyamaca St	NB	Approach	326	4.2	70	2.28	SB	Approach	466	1.7	70	2.28
			Depart	1,035	0.9	N/A	2.28		Depart	263	22.3	N/A	1.53
Left Turn			80	5.3	80	2.26	Left Turn		97	5.3	80	2.26	
EB		Approach	1,193	10.6	40	1.89	WB	Approach	619	12.4	40	1.68	
		Depart	1,270	23	N/A	1.32		Depart	899	24.8	N/A	0.78	
		Left Turn	646	0.1	80	2.28		Left Turn	40	5.1	80	2.27	
NBX		Approach	406	31	N/A	0.65	SBX	Approach	563	31	N/A	0.65	
		Depart	1,035	31	N/A	0.65		Depart	263	31	N/A	0.65	
EBX		Approach	1,839	28	N/A	0.69	WBX	Approach	659	28	N/A	0.69	
		Depart	1,270	28	N/A	0.69		Depart	899	28	N/A	0.69	
Riverford Rd & SR-67 SB Ramps		NB	Approach	1,202	5.5	55	2.25	SB	Approach	616	10.3	55	1.92
			Depart	1,363	20.4	N/A	2.09		Depart	1,038	24.1	N/A	0.99
	Left Turn		275	5.3	80	2.26	Left Turn		110	5.3	80	2.26	
	EB	Approach	1,220	5.5	55	2.25	WB	Approach	485	11	55	1.84	
		Depart	1,562	14.8	N/A	1.40		Depart	901	25.6	N/A	0.72	
		Left Turn	603	0.1	80	2.28		Left Turn	353	5.3	80	2.26	
	NBX	Approach	1,477	31	N/A	0.65	SBX	Approach	726	31	N/A	0.65	
		Depart	1,363	31	N/A	0.65		Depart	1,038	31	N/A	0.65	
	EBX	Approach	1,823	31	N/A	0.65	WBX	Approach	838	31	N/A	0.65	
		Depart	1,562	31	N/A	0.65		Depart	901	31	N/A	0.65	
	Riverford Rd & Woodside Ave	NB	Approach	867	4.8	40	2.28	SB	Approach	1,107	2.7	40	2.28
			Depart	1,013	13.2	N/A	1.58		Depart	327	25.2	N/A	0.72
Left Turn			300	1.7	80	2.28	Left Turn		0	--	--	--	
EB		Approach	0	--	--	--	WB	Approach	146	7.7	70	2.10	
		Depart	0	--	--	--		Depart	1,100	0.9	N/A	2.28	
		Left Turn	0	--	--	--		Left Turn	20	5.3	80	2.26	
NBX		Approach	1,167	28	N/A	0.69	SBX	Approach	1,107	28	N/A	0.69	
		Depart	1,013	28	N/A	0.69		Depart	327	28	N/A	0.69	
EBX		Approach	0	--	--	--	WBX	Approach	166	31	N/A	0.65	
		Depart	0	--	--	--		Depart	1,100	31	N/A	0.65	
Mission Gorge Rd & West Hills Pkwy		NB	Approach	0	--	--	--	SB	Approach	40	7.4	70	2.12
			Depart	1,107	0.9	N/A	2.28		Depart	0	--	--	--
	Left Turn		0	--	--	--	Left Turn		237	1.7	80	2.28	
	EB	Approach	740	7.2	40	2.14	WB	Approach	487	11.6	40	1.77	
		Depart	977	13.2	N/A	1.58		Depart	150	25.9	N/A	0.71	
		Left Turn	730	0	80	2.28		Left Turn	0	--	--	--	
	NBX	Approach	0	--	--	--	SBX	Approach	277	28	N/A	0.69	
		Depart	1,107	28	N/A	0.69		Depart	0	--	--	--	
	EBX	Approach	1,470	28	N/A	0.69	WBX	Approach	487	28	N/A	0.69	
		Depart	977	28	N/A	0.69		Depart	150	28	N/A	0.69	
	Mast Blvd & SR-52 WB Ramps	NB	Approach	100	7.7	70	2.10	SB	Approach	463	1.7	70	2.28
			Depart	956	0.9	N/A	2.28		Depart	230	22.3	N/A	1.53
Left Turn			30	5.3	80	2.26	Left Turn		260	5.3	80	2.26	
Approach			965	12.3	40	1.69	Approach		765	13.1	40	1.59	

INTERSECTING STREETS			VPH	MPH	%RT	EF			VPH	MPH	%RT	EF	
	EB	Depart	1,200	27.2	N/A	0.70	WB	Depart	918	28.1	N/A	0.68	
		Left Turn	636	0.5	80	2.28		Left Turn	85	5.3	80	2.26	
	NBX	Approach	130	31	N/A	0.65	SBX	Approach	723	31	N/A	0.65	
		Depart	956	31	N/A	0.65		Depart	230	31	N/A	0.65	
	EBX	Approach	1,601	31	N/A	0.65	WBX	Approach	850	31	N/A	0.65	
		Depart	1,200	31	N/A	0.65		Depart	918	31	N/A	0.65	
Mission Gorge Rd & Carlton Hills Blvd	NB	Approach	115	7.7	70	2.10	SB	Approach	790	0.2	70	2.28	
		Depart	1,698	0.9	N/A	2.28		Depart	440	10.1	N/A	1.95	
		Left Turn	60	5.3	80	2.26		Left Turn	442	1.7	80	2.28	
	EB	Approach	1,516	11.1	40	1.83	WB	Approach	1,666	11.1	40	1.83	
		Depart	1,833	26	N/A	0.71		Depart	1,738	27.2	N/A	0.70	
		Left Turn	970	0.2	80	2.28		Left Turn	150	5.3	80	2.26	
	NBX	Approach	175	31	N/A	0.65	SBX	Approach	1,232	31	N/A	0.65	
		Depart	1,698	31	N/A	0.65		Depart	440	31	N/A	0.65	
	EBX	Approach	2,486	31	N/A	0.65	WBX	Approach	1,816	31	N/A	0.65	
		Depart	1,833	31	N/A	0.65		Depart	1,738	31	N/A	0.65	
	Mission Gorge Rd & Town Center Pkwy	NB	Approach	490	1.7	70	2.28	SB	Approach	840	0.1	70	2.28
			Depart	1,285	0.9	N/A	2.28		Depart	605	3.2	N/A	2.28
Left Turn			390	5.3	80	2.26	Left Turn		340	5.3	80	2.26	
EB		Approach	1,396	11.6	40	1.77	WB	Approach	1,088	12.4	40	1.68	
		Depart	1,716	24.1	N/A	0.99		Depart	1,753	24.1	N/A	0.99	
		Left Turn	620	0.5	80	2.28		Left Turn	195	5.1	80	2.27	
NBX		Approach	880	31	N/A	0.65	SBX	Approach	1,180	31	N/A	0.65	
		Depart	1,285	31	N/A	0.65		Depart	605	31	N/A	0.65	
EBX		Approach	2,016	28	N/A	0.69	WBX	Approach	1,283	28	N/A	0.69	
		Depart	1,716	28	N/A	0.69		Depart	1,753	28	N/A	0.69	
Mission Gorge Rd & Cuyamaca St		NB	Approach	1,442	0.2	70	2.28	SB	Approach	1,138	4.2	70	2.28
			Depart	1,723	1.2	N/A	2.28		Depart	1,543	5.1	N/A	2.27
	Left Turn		735	0.5	80	2.28	Left Turn		348	5.3	80	2.26	
	EB	Approach	1,085	13.1	40	1.59	WB	Approach	762	13.9	40	1.50	
		Depart	1,440	28.1	N/A	0.68		Depart	1,513	27.2	N/A	0.70	
		Left Turn	416	1.7	80	2.28		Left Turn	293	5.3	80	2.26	
	NBX	Approach	2,177	31	N/A	0.65	SBX	Approach	1,486	31	N/A	0.65	
		Depart	1,723	31	N/A	0.65		Depart	1,543	31	N/A	0.65	
	EBX	Approach	1,501	31	N/A	0.65	WBX	Approach	1,055	31	N/A	0.65	
		Depart	1,440	31	N/A	0.65		Depart	1,513	31	N/A	0.65	
	Mission Gorge Rd & Cottonwood Ave	NB	Approach	290	6.6	70	2.18	SB	Approach	50	7.7	70	2.10
			Depart	260	22.3	N/A	1.53		Depart	350	18	N/A	1.88
Left Turn			155	5.3	80	2.26	Left Turn		20	5.3	80	2.26	
EB		Approach	1,453	11.6	40	1.77	WB	Approach	987	12.4	40	1.68	
		Depart	1,498	24.8	N/A	0.78		Depart	1,087	25.2	N/A	0.72	
		Left Turn	85	5.1	80	2.27		Left Turn	155	5.1	80	2.27	
NBX		Approach	445	31	N/A	0.65	SBX	Approach	70	31	N/A	0.65	
		Depart	260	31	N/A	0.65		Depart	350	31	N/A	0.65	
EBX		Approach	1,538	28	N/A	0.69	WBX	Approach	1,142	28	N/A	0.69	
		Depart	1,498	28	N/A	0.69		Depart	1,087	28	N/A	0.69	
Mission Gorge Rd & Magnolia Ave		NB	Approach	1,645	1.6	55	2.28	SB	Approach	902	9.3	55	2.00
			Depart	1,920	6.5	N/A	2.18		Depart	1,700	9.3	N/A	2.00
	Left Turn		310	5.3	80	2.26	Left Turn		288	5.3	80	2.26	
	EB	Approach	1,135	7.9	55	2.09	WB	Approach	982	9.3	55	2.00	
		Depart	1,483	14.8	N/A	1.40		Depart	1,177	24.1	N/A	0.99	
		Left Turn	423	1.7	80	2.28		Left Turn	595	1.7	80	2.28	
	NBX	Approach	1,955	31	N/A	0.65	SBX	Approach	1,190	31	N/A	0.65	
		Depart	1,920	31	N/A	0.65		Depart	1,700	31	N/A	0.65	
	EBX	Approach	1,558	31	N/A	0.65	WBX	Approach	1,577	31	N/A	0.65	
		Depart	1,483	31	N/A	0.65		Depart	1,177	31	N/A	0.65	
	Woodside Ave N & SR-67 SB Off-Ramp	NB	Approach	963	2.7	40	2.28	SB	Approach	567	13.1	40	1.59
			Depart	0	--	--	--		Depart	1,047	24.1	N/A	0.99
Left Turn			190	5.1	80	2.27	Left Turn		10	5.1	80	2.27	
EB		Approach	295	6.6	70	2.18	WB	Approach	5	7.7	70	2.10	
		Depart	1,008	0.9	N/A	2.28		Depart	205	22.3	N/A	1.53	
		Left Turn	0	--	--	--		Left Turn	230	1.7	80	2.28	
NBX		Approach	1,153	28	N/A	0.69	SBX	Approach	577	28	N/A	0.69	
		Depart	0	--	--	--		Depart	1,047	28	N/A	0.69	
EBX		Approach	295	31	N/A	0.65	WBX	Approach	235	31	N/A	0.65	
		Depart	1,008	31	N/A	0.65		Depart	205	31	N/A	0.65	