

Appendix C2 Health Risk Assessment

Appendices

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June 2017 | Construction Health Risk Assessment

CITY OF HOPE CAMPUS PLAN

City of Duarte

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City of Duarte

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1. Introduction

The proposed City of Hope Specific Plan (Specific Plan) contains required elements to encourage a broad range of design solutions to guide development and improvements. The proposed Specific Plan addresses the replacement of existing outdated and/or obsolete buildings with modern facilities, including outpatient (clinic), inpatient (hospital), research, office, industrial, warehouse, and hospitality uses. It also allows the development of parking structures, surface parking lots, internal roadways, pedestrian amenities, landscaping, open space, and other related improvements. In addition, the Specific Plan proposes to consolidate modular buildings that are currently dispersed throughout the campus, demolish outdated buildings, and construct new floor area within larger development sites. The City of Hope planning area is primarily within the City of Duarte, with a small eastern portion within the city limits of Irwindale.

Existing sensitive receptors proximate to the project site include the abutting and adjacent single-family residences to the west along Cinco Robles Drive, the Duarte Flood Control Channel, and Buena Vista Street. Other nearby receptors include the single- and multifamily residences further to the west in addition to the single-family residences to north across Duarte Road and the Los Angeles County Metropolitan Transportation Authority (Metro) railroad right-of-way for the Gold Line. Additionally, Beardslee Elementary school, which serves students in grades kindergarten to the sixth grade, is also nearby in the northwest quadrant at the intersection of Galen Street and Buena Vista Street.

This report presents the results of a construction health risk assessment (HRA) for the proposed project. This construction HRA considers the health impact to sensitive receptors (adults and children in the nearby residences and elementary school) of construction emissions at the project site from diesel equipment exhaust (diesel particulate matter or DPM). It should be noted that these health impacts were based on conservative (i.e., health protective) assumptions. The United States Environmental Protection Agency (USEPA) and the Office of Environmental Health Hazard Assessment (OEHHA) note that conservative assumptions used in a risk assessment are intended to ensure that the estimated risks do not underestimate the actual risks (USEPA 2005; OEHHA 2015). Therefore, this HRA is based on OEHHA guidelines to produce conservative estimates of cancer risk posed by exposure to construction DPM.

For this residential-based risk assessment, the following conservative assumptions were used:

- It was assumed that maximum-exposed residential receptors (both children and adults) stood outdoors and are subject to DPM at their residence for 8 hours per day, and approximately 260 construction days per year. As a conservative measure, the SCAQMD does not recognize indoor adjustments for receptors. However, California residents typically spend on average 2 hours per day outdoors at their residences and their remaining time indoors (USEPA 2011). This would result in lower exposures to construction related DPM emissions and lower estimated risk values.

1. Introduction

- The calculated risk for infants from third trimester to age 2, children aged 2 to 16 years, and those aged 16 to 30 are multiplied by age sensitivity factors of 10, 3, and 1, respectively, to account for early life exposure and uncertainty in child versus adult exposure impacts (OEHHA 2015).

For this elementary school-based risk assessment, the following conservative assumptions were used:

- It was assumed that maximum-exposed students stood outdoors and are subject to DPM at the school for 8 hours per day, 250 days per year (work days; OEHHA 2004). In reality, children are exposed to outdoor pollutant concentration levels for a portion of the day and are exposed to reduced indoor pollutant concentrations for the remaining school hours. This would result in lower estimated risk values.
- The calculated risk for children from 2 to 16 years is multiplied by an age sensitivity factor of 3 to account for early life exposure and uncertainty in child versus adult exposure impacts (OEHHA 2015).

Thus, the estimated risks provided in this HRA are conservative.

2. Project Description

The 116-acre planning area is primarily in the City of Duarte (approximately 89.5 acres), with a smaller portion at its eastern and southern edges in the City of Irwindale (approximately 26.5 acres). It is generally bounded by Duarte Road to the north; Cinco Robles Drive, the Duarte Flood Control Channel, and Buena Vista Street to the west; and the Santa Fe Flood Control Basin to the east and south. The planning area is occupied by the existing City of Hope medical campus. Under the proposed Specific Plan, approximately 387,500 square feet of building space would be demolished and replaced with approximately 1,426,000 square feet of new building space in addition to two new parking structures. The new building space would consist of hospital, medical office, research and development, hospitality, parking, and industrial space. Implementation of the Specific Plan is anticipated to occur over four development phases. Construction activities are anticipated to begin in January 2018 and last through December 2035. The project site and locations of the off-site receptors are depicted in Figure 1.

2. Project Description

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2. Project Description

Figure 1 **Project Site and Off-Site Receptor Locations**

2. Project Description

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3. Methodology and Significance Thresholds

The purpose of the HRA is to evaluate the potential health impacts from DPM emitted during construction activities. Construction sources evaluated in this HRA include off-road construction equipment, such as excavators, tractors/loaders/backhoes, cranes, forklifts, generators, welders, and air compressors as provided by LSA Associates.

Currently, SCAQMD has not released guidance specifically for the evaluation of construction-related health risk impacts. However, per OEHHA guidelines, projects lasting for longer than two months may be evaluated for potential health risks to surrounding receptors. The determination of health risks in this HRA required the calculation of a 70-year average to determine individual lifetime cancer risks. OEHHA guidelines also state that an HRA should be based on an age factor exposure period, although such assessments should be limited to the period and duration of activities associated with the subject project. For the proposed project, construction activities are anticipated to occur over an approximately 18-year period. For purposes of this analysis, the SCAQMD significance thresholds for operational related health risk impacts are utilized and are shown below:

- Excess cancer risk of more than 10 in a million
- Non-cancer hazard index (chronic) greater than 1.0

The methodology used in this HRA is consistent with the most recent OEHHA guidance document, which recommends evaluation of short-term projects longer than 6 months for the duration of the project (OEHHA 2015).

Potential exposures to DPM from proposed project construction were evaluated for off-site sensitive receptors in close proximity to the site, which includes the residences and elementary school students west of the project site. Using air dispersion models, receptor concentrations were estimated, and excess lifetime cancer risks and chronic non-cancer hazard indexes were calculated. These risks were then compared to the significance thresholds adopted in this HRA.

3. Methodology and Significance Thresholds

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4. Emissions Inventories

Construction emissions were calculated as average daily emissions in pounds per day, using the proposed construction schedule and the latest version of California Emissions Estimation Model, known as CalEEMod Version 2016.3.1 (CAPCOA 2016). DPM emissions were based on the CalEEMod construction runs, using annual exhaust PM₁₀ construction emissions in tons per year (tons/yr). The project was assumed to take place over 18 years (6,569 calendar days or 4,688 work days) from the start of January 2018 through December 2035. The average daily emission rates from construction equipment used during the proposed project were determined by dividing the annual average emissions (tons/yr) for each construction year (i.e., 2018 to 2035) by the number of construction days per year (on average 260 construction days per year). The modeled average daily emission rates in pounds per day (lbs/day) for the construction scenario are summarized in Table 1. As the calculated hauling emissions used the CalEEMod default 20-mile haul length, the off-site hauling emission rates were adjusted to evaluate localized emissions from the 1.47-mile haul route within 1,000 feet of the project site. The CalEEMod construction emissions output and emission rate calculations are provided in Appendix A.

4. Emissions Inventories

Table 1 Construction Activity: Average Daily Emission Rates

Parameter – Year	On-Site Emissions (lbs/day) ¹	Total Off-Site Emissions (lbs/day)
DPM – 2018	1.99	0.14
DPM – 2019	1.34	0.24
DPM – 2020	1.23	0.19
DPM – 2021	1.75	0.05
DPM – 2022	0.84	0.06
DPM – 2023	0.77	0.05
DPM – 2024	0.67	0.05
DPM – 2025	0.18	0.01
DPM – 2026	0.83	0.01
DPM – 2027	0.55	0.02
DPM – 2028	0.58	0.02
DPM – 2029	0.58	0.02
DPM – 2030	0.11	0.00
DPM – 2031	0.32	0.01
DPM – 2032	0.16	0.01
DPM – 2033	0.17	0.01
DPM – 2034	0.17	0.01
DPM – 2035	0.06	0.00

Presented emission rates are average daily emissions.

Source: CalEEMod 2016.3.1. On-site emissions are generated from off-road equipment. Off-site emissions are generated from worker and hauling trips.

¹ Assumes off-road construction equipment are not fitted with any diesel particulate filters or newer tier engines.

5. Air Dispersion Modeling

To assess the impact of emitted compounds on sensitive receptors near the project, air quality modeling using the AERMOD atmospheric dispersion model was performed. The model is a steady state Gaussian plume model and is an approved model by SCAQMD for estimating ground level impacts from point and fugitive sources in simple and complex terrain. The on-site construction emissions for the project were modeled as poly-area sources, and the off-site construction emission sources were modeled as adjacent line volume sources.

The model requires additional input parameters, including chemical emission data and local meteorology. Inputs for the construction and operational phase emission rates are described in Section 4. Meteorological data obtained from the SCAQMD for the nearest representative meteorological station with the five latest available years of record (Azusa, 2008 to 2012) were used to represent local weather conditions and prevailing winds (SCAQMD 2017b). The general prevailing winds at the project are from west to east. The wind rose for the Azusa meteorological station is provided in Appendix A.

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. To accommodate the model's Cartesian grid format, direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. In addition, digital elevation model (DEM) data for the area were obtained and included in the model runs to account for complex terrain. An emission release height of 4.15 meters was used as representative of the stack exhaust height for off-road construction equipment and diesel truck traffic, and an initial vertical dispersion parameter of 1.93 m was used, per CARB guidance (CARB 2000).

To determine contaminant impacts during construction hours, the model's "hour-by-day-of-week" (HRDOW) scalar option was invoked to predict ground-level concentrations for emissions generated between the hours of 7:00 AM and 4:00 PM, with a 1-hour lunch break, Monday to Friday. In addition, a scalar factor was applied to the risk calculations to account for the number of days residents and students are exposed to construction emissions per year.

It should be noted that the average daily emission rates calculated from CalEEMod were not used in the air dispersion model. For all AERMOD runs, a unit emission rate of 1 gram per second was used. The unit emission rates were proportioned over the poly-area sources for on-site construction emissions and divided between the volume sources for off-site hauling emissions. The AERMOD concentrations at the maximum exposed receptor (MER) from the output files were then multiplied by the average daily emission rates calculated in Appendix A to obtain the maximum ground-level DPM concentrations for both residential and school MER locations. The MER location for both the residential and school receptors is the receptor location associated with the maximum predicted AERMOD concentrations from the on-site emission source. Because the calculated on-site emission rates are approximately 2 to 3 orders of magnitude higher than the calculated off-site emission rates (see Appendix A), the maximum concentrations associated with the on-site

5. Air Dispersion Modeling

emission sources produce the highest overall ground-level MER concentrations and, consequently, higher calculated health risks.

The AERMOD model output for the emission sources is presented in Appendix B. The model output DPM concentrations for the on-site and off-site construction sources are provided in Table C1a of Appendix C for residential receptors and Table C2a for elementary school student receptors. The maximum ground-level DPM concentrations at the residential MER and the school MER are provided in Table C1a, column f and Table C2a, column f, respectively.

6. Risk Characterizations

6.1 CARCINOGENIC CHEMICAL RISK

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. The SCAQMD has established a maximum incremental cancer risk of 10 in a million (1.0E-05) for CEQA projects, and OEHHA also defines a typical risk management level as 10 in a million (OEHHA, 2015).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. The cancer risk probability is determined by multiplying the chemical's annual concentration by its cancer potency factor (CPF), a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It is an upper-limit estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu\text{g}/\text{m}^3$) over a lifetime of 70 years.

Recent guidance from OEHHA recommends a refinement to the standard point estimate approach with the use of age-specific breathing rates and age sensitivity factors (ASFs) to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose for each age group. Once determined, contaminant dose is multiplied by the cancer potency factor in units of inverse dose expressed in milligrams per kilogram per day ($\text{mg}/\text{kg}/\text{day}$)⁻¹ to derive the cancer risk estimate. Therefore, to accommodate the unique exposures associated with the residential and daycare-based receptors, the following dose algorithm was used.

$$\text{Dose}_{\text{AIR,per age group}} = (C_{\text{air}} \times \text{EF} \times \left[\frac{\text{BR}}{\text{BW}}\right] \times A \times \text{CF})$$

Where:

Dose _{AIR}	=	dose by inhalation (mg/kg-day), per age group
C _{air}	=	concentration of contaminant in air ($\mu\text{g}/\text{m}^3$)
EF	=	exposure frequency (number of days/365 days)
BR/BW	=	daily breathing rate normalized to body weight (L/kg-day)
A	=	inhalation absorption factor (default = 1)
CF	=	conversion factor (1×10^{-6} , μg to mg , L to m^3)

The inhalation absorption factor (A) is a unitless factor that is only used if the cancer potency factor included a correction for absorption across the lung. For this assessment, the default value of 1 was used. For residential receptors, the exposure frequency (EF) of 0.96 is used to represent 350 days per year to allow for a two-week period away from home each year (OEHHA 2015). This timeline is considered appropriate for potential residential exposures established by OEHHA (2015). For student receptors, an EF of 0.68 is used

6. Risk Characterizations

to represent 250 days per year for students (OEHHA 2004). For residential receptors, the 95th percentile daily breathing rates (BR/BW), exposure durations (ED) over the 18-year construction period, age sensitivity factors (ASFs), and fraction of time at home (FAH) for the various age groups are provided herein:

<u>Age Groups</u>	<u>BR/BW (L/kg-day)</u>	<u>ED, 18 years</u>	<u>ASF</u>	<u>FAH</u>
Third trimester	361	0.25	10	0.85
0–2 age group	1,090	2	10	0.85
2–16 age group	745	14	3	0.72
16–30 age group	335	1.75	1	0.73

For elementary school students, the 95th percentile 8-hour breathing rates (moderate intensity activity), ED of 7.5 years (kindergarten through 6th grade, assuming 6th graders complete the academic year by June), and ASF, for the 2- to 16-year-old age group is provided herein:

<u>Age Groups</u>	<u>BR/BW (L/kg-day)</u>	<u>ED, 7.5 years</u>	<u>ASF</u>
2–16 age group	520	7.5	3

For construction analysis, the residential exposure duration spans the length of construction (e.g. 4,688 work days or 18 years). For elementary school students, the school exposure duration spans the first 7.5 years of construction (i.e. 2018 to 2025). The first 7.5 years of construction was used as the exposure duration because the highest DPM emissions occur within that period of time (see Table 1) and would result in conservative health risk estimates for students. To calculate the overall cancer risk, the risk for each appropriate age group is calculated per the following equation:

$$\text{Cancer Risk}_{\text{AIR}} = \text{Dose}_{\text{AIR}} \times \text{CPF} \times \text{ASF} \times \text{FAH} \times \frac{\text{ED}}{\text{AT}}$$

Where:

Dose _{AIR}	=	dose by inhalation (mg/kg-day), per age group
CPF	=	cancer potency factor, chemical-specific (mg/kg-day) ⁻¹
ASF	=	age sensitivity factor, per age group
FAH	=	fraction of time at home, per age group (for residential receptors only)
ED	=	exposure duration (years), per age group
AT	=	averaging time period over which exposure duration is averaged (always 70 years)

The CPFs used in the assessment were obtained from OEHHA guidance. The excess lifetime cancer risks during the construction period to the maximally exposed resident were calculated based on the factors provided above. The cancer risks for each age group are summed to estimate the total cancer risk for each toxic chemical species. For purposes of this assessment, the calculated residential cancer risks associated with construction activities are based on the 3rd trimester, 0 to 2 year old, 2 to 16 year old, and 16 to 30 year old age groups. The calculated elementary school cancer risks associated with construction activities are based on

6. Risk Characterizations

the 2 to 16 year old age group. The final step converts the cancer risk in scientific notation to a whole number that expresses the cancer risk in “chances per million” by multiplying the cancer risk by a factor of 1×10^6 (i.e. 1 million). For construction, the calculated results are provided in Appendix C.

6.2 NON-CARCINOGENIC HAZARDS

An evaluation of the potential non-cancer effects of chronic and acute chemical exposures was also conducted. Adverse health effects are evaluated by comparing the annual receptor level (ground) concentration of each chemical compound with the appropriate reference exposure limit (REL). Available RELs promulgated by OEHHA were considered in the assessment.

To quantify non-carcinogenic impacts, the hazard index approach was used. The hazard index assumes that chronic and acute sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). For each discrete chemical exposure, target organs presented in regulatory guidance were used. To calculate the hazard index, each chemical concentration or dose is divided by the appropriate toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds 1, a health hazard is presumed to exist.

For construction, the chronic hazard analysis for DPM is provided in Appendix C. The calculations contain the relevant exposure concentrations and corresponding reference dose values used in the evaluation of non-carcinogenic exposures.

6. Risk Characterizations

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7. Conclusions

The following section summarizes the findings and conclusion for this HRA report. The residential and daycare health risk values are based on the maximum modeled receptor concentration over the construction exposure period, conservatively assuming a 24-hour per day outdoor exposure and averaged over a 70-year lifetime. According to the modeling results and as shown in Figure 1, the residential MER is the single-family residence at 1342 Galen Street along the western boundary of the planning area near Galen Street and the Duarte Flood Control Channel. Results of the health risk assessment shown in Table 2 indicate that the maximum incremental cancer risk during the construction phase of the project at the residential MER is 26.0 per million, which exceeds the significance threshold of 10 per million. Cancer risk for students at Beardslee Elementary School is 1.4 per million and would not exceed 10 per million. For non-carcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both the residential and school MER. Therefore, chronic non-carcinogenic hazards are within acceptable limits.

Table 2 Construction HRA Results

Receptor	Cancer Risk (per million)	Chronic Hazard Index
Maximum Exposed Receptor – Resident	26.0	0.10
Maximum Exposed Receptor – Beardslee Elementary School	1.4	0.02
Significance Threshold	10	1.0
Exceeds Threshold?	Yes	No

Source: PlaceWorks.

Because cancer risk for residential receptors would exceed the designated 10 per million significance threshold due to construction activities associated with the proposed project, the following mitigation measure is proposed:

MM 1: The project construction contractor(s) shall use construction equipment fitted with Level 3 Diesel Particulate Filters (DPF) for all construction equipment of 50 horsepower or more. Prior to any construction, the construction contractor(s) shall ensure that all construction plans submitted to the entity with jurisdiction over the project, i.e., either the City of Duarte, City of Irwindale, and/or Office of Statewide Health Planning and Development, clearly show the requirement for Level 3 DPF for construction equipment over 50 horsepower. During construction, the construction contractor(s) shall maintain a list of all operating equipment in use on the project site for verification by the entity with jurisdiction over the project, i.e., either the City of Duarte, City of Irwindale, and/or Office of Statewide Health Planning and Development. The construction equipment list shall state the makes, models, and number of construction equipment on site. Equipment shall be properly serviced and

7. Conclusions

maintained in accordance with manufacturer recommendations. The construction contractor(s) shall ensure that all non-essential idling of construction equipment is restricted to five minutes or less in compliance with Section 2449 of the California Code of Regulations, Title 13, Article 4.8, Chapter 9.

Mitigation Measure 1 (MM 1) would reduce the project's localized construction emissions, as shown in Table 3. The results indicate that, with mitigation, cancer risk would be reduced to 5.1 per million and less than the significance threshold for residential receptors. Therefore, the project would not expose off-site sensitive receptors to substantial concentrations of air pollutant emissions during construction and impacts would be *less than significant with mitigation*.

Table 3 Construction HRA Results – Mitigated

Receptor	Cancer Risk (per million) ¹	Chronic Hazard Index ¹
Maximum Exposed Receptor – Resident	5.1	0.02
Significance Threshold	10	1.0
Exceeds Threshold?	No	No

Source: PlaceWorks.

Notes: Cancer risk calculated using 2015 OEHHA HRA guidance.

¹ Risks incorporate Mitigation Measure 1, which includes using construction equipment with Level 3 Diesel Particulate Filters for equipment over 50 horsepower.

8. References

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8. References

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Appendix A. Emission Rate Calculations

Appendix

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Average Daily Emissions and Emission Rates

Onsite Construction PM10 Exhaust Emissions¹

Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/hr)	Emission Rate (g/s)	# of Workdays/Year	Risk Scalar ²
2018	0.2591	518.2	261	1.99	2.48E-01	3.13E-02	261	1.00
2019	0.1755	351.02	261	1.34	1.68E-01	2.12E-02	261	1.00
2020	0.1608	321.6	262	1.23	1.53E-01	1.93E-02	262	1.00
2021	0.2287	457.34	261	1.75	2.19E-01	2.76E-02	261	1.00
2022	0.1093	218.58	260	0.84	1.05E-01	1.32E-02	260	1.00
2023	0.1002	200.42	260	0.77	9.64E-02	1.21E-02	260	1.00
2024	0.0883	176.56	262	0.67	8.42E-02	1.06E-02	262	1.00
2025	0.0237	47.44	258	0.18	2.30E-02	2.90E-03	261	0.99
2026	0.1078	215.6	261	0.83	1.03E-01	1.30E-02	261	1.00
2027	0.0715	143	261	0.55	6.85E-02	8.63E-03	261	1.00
2028	0.0753	150.6	260	0.58	7.24E-02	9.12E-03	260	1.00
2029	0.0756	151.24	261	0.58	7.24E-02	9.13E-03	261	1.00
2030	0.0138	27.6	258	0.11	1.34E-02	1.68E-03	261	0.99
2031	0.0413	82.62	261	0.32	3.96E-02	4.99E-03	261	1.00
2032	0.0204	40.86	262	0.16	1.95E-02	2.46E-03	262	1.00
2033	0.0219	43.88	260	0.17	2.11E-02	2.66E-03	260	1.00
2034	0.0219	43.88	260	0.17	2.11E-02	2.66E-03	260	1.00
2035	0.0075	14.96	259	0.06	7.22E-03	9.10E-04	261	0.99

Offsite Construction PM10 Exhaust Emissions¹

Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Hauling Emissions w/in 1,000 ft (lbs/day) ³	Emission Rate (lbs/hr)	Emission Rate (g/s)
2018	0.0178	35.58	261	0.14	1.00E-02	1.25E-03	1.57E-04
2019	0.0317	63.46	261	0.24	1.78E-02	2.23E-03	2.81E-04
2020	0.0247	49.44	262	0.19	1.38E-02	1.73E-03	2.18E-04
2021	0.0067	13.3	261	0.05	3.74E-03	4.67E-04	5.89E-05
2022	0.0082	16.48	260	0.06	4.65E-03	5.81E-04	7.32E-05
2023	0.0067	13.44	260	0.05	3.79E-03	4.74E-04	5.97E-05
2024	0.0067	13.34	262	0.05	3.73E-03	4.67E-04	5.88E-05
2025	0.0012	2.42	258	0.01	6.88E-04	8.60E-05	1.08E-05
2026	0.0011	2.26	261	0.01	6.35E-04	7.94E-05	1.00E-05
2027	0.0023	4.58	261	0.02	1.29E-03	1.61E-04	2.03E-05
2028	0.0023	4.64	260	0.02	1.31E-03	1.64E-04	2.06E-05
2029	0.0022	4.4	261	0.02	1.24E-03	1.55E-04	1.95E-05
2030	0.0004	0.76	258	0.00	2.16E-04	2.70E-05	3.40E-06
2031	0.0007	1.34	261	0.01	3.76E-04	4.71E-05	5.93E-06
2032	0.0013	2.58	262	0.01	7.22E-04	9.03E-05	1.14E-05
2033	0.0013	2.6	260	0.01	7.33E-04	9.17E-05	1.15E-05
2034	0.0012	2.48	260	0.01	6.99E-04	8.74E-05	1.10E-05
2035	0.0002	0.42	259	0.00	1.19E-04	1.49E-05	1.87E-06

Note: Emissions evenly distributed over 98 modeled volume sources.

Hauling Length (miles) 20.0

Haul Length within 1,000 ft of Site (mile)³ 1.47

Hours per work day (7:00 AM to 4:00 PM, 1-hour of breaks)⁴ 8 hours

¹ DPM emissions taken as PM₁₀ exhaust emissions from CalEEMod average daily emissions.

² Risk scalars determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App C - Risk Calculations).

³ Emissions from CalEEMod offsite average daily emissions, which is based on proportioned haul truck trip distance of 20 miles (CalEEMod Default), are adjusted to evaluate emissions from the 1.47-mile route within 1,000 of the project site.

⁴ Work hours applied in By Hour/Day (HRDOW) variable emissions module in air dispersion model (see App B - Air Dispersion Model Output Files).

Annual Construction Emissions

P1 Demolition

		2018	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.0364	0.00551	0	0.00551
	Off-Road		5.82E-02	5.82E-02		5.41E-02	5.41E-02
	Total		5.82E-02	9.45E-02	0.00551	5.41E-02	5.97E-02
Offsite							
	Hauling		0.00049	0.00678	0.00174	0.00047	0.00221
	Vendor		5.00E-05	0.00041	0.0001	5.00E-05	0.00015
	Worker		4.00E-05	0.00459	0.00122	4.00E-05	0.00126
	Total		5.80E-04	0.0118	0.00306	5.60E-04	0.00362
TOTAL			0.0588	0.1063	0.0086	0.0547	0.0633

P1 Site Preparation

		2018	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.1159	0.0637	0	0.0637
	Off-Road		3.87E-02	3.87E-02		3.56E-02	3.56E-02
	Total		3.87E-02	1.55E-01	0.0637	3.56E-02	9.92E-02
Offsite							
	Hauling		0	0	0	0	0
	Vendor		3.00E-05	0.0002	0.00005	2.00E-05	0.00008
	Worker		3.00E-05	0.00275	0.00073	2.00E-05	0.00075
	Total		6.00E-05	0.00295	0.00078	4.00E-05	0.00083
TOTAL			0.0388	0.1575	0.0645	0.0356	0.1000

P1 Grading

		2018	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.1118	0.0462	0	0.0462
	Off-Road		7.90E-02	7.90E-02		7.27E-02	7.27E-02
	Total		7.90E-02	1.91E-01	0.0462	7.27E-02	1.19E-01
Offsite							
	Hauling		0.00194	0.027	0.00694	0.00186	0.00879
	Vendor		5.00E-05	0.00041	0.0001	5.00E-05	0.00015
	Worker		6.00E-05	0.00612	0.00162	6.00E-05	0.00168
	Total		2.05E-03	0.0335	0.00866	1.97E-03	0.0106
TOTAL			0.0811	0.2244	0.0549	0.0747	0.1295

P1 Building Construction

		2018	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		8.32E-02	8.32E-02		7.83E-02	7.83E-02
	Total		8.32E-02	8.32E-02		7.83E-02	7.83E-02
Offsite							
	Hauling		0	0	0	0	0
	Vendor		1.19E-02	0.0924	0.0235	1.14E-02	0.0348
	Worker		3.20E-03	0.3273	0.0866	2.95E-03	0.0896
	Total		1.51E-02	0.4197	0.1101	1.43E-02	0.1244
TOTAL			0.0983	0.5029	0.1101	0.0926	0.2027

		2019	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		1.68E-01	1.68E-01		1.58E-01	1.58E-01
	Total		1.68E-01	1.68E-01		1.58E-01	1.58E-01
Offsite							
	Hauling		0	0	0	0	0
	Vendor		2.39E-02	0.2132	0.0552	2.28E-02	0.078
	Worker		7.27E-03	0.7693	0.2037	6.70E-03	0.2104
	Total		3.11E-02	0.9825	0.2589	2.95E-02	0.2884
TOTAL			0.1994	1.1508	0.2589	0.1878	0.4467

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2020					
	Off-Road	1.46E-01	1.46E-01		1.38E-01	1.38E-01
	Total	1.46E-01	1.46E-01		1.38E-01	1.38E-01
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.62E-02	0.2063	0.0554	1.55E-02	0.071
	Worker	7.07E-03	0.7721	0.2045	6.52E-03	0.211
	Total	2.33E-02	0.9784	0.2599	2.21E-02	0.282
TOTAL		0.1696	1.1247	0.2599	0.1597	0.4196

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2021					
	Off-Road	7.67E-03	7.67E-03		7.21E-03	7.21E-03
	Total	7.67E-03	7.67E-03		7.21E-03	7.21E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.00E-04	0.012	0.00338	3.80E-04	0.00376
	Worker	4.20E-04	0.0471	0.0125	3.80E-04	0.0129
	Total	8.20E-04	0.0591	0.0159	7.60E-04	0.0166
TOTAL		0.0085	0.0668	0.0159	0.0080	0.0238

P1 Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2019					
	Archit. Coating	0	0		0	0
	Off-Road	7.21E-03	7.21E-03		7.21E-03	7.21E-03
	Total	7.21E-03	7.21E-03		7.21E-03	7.21E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	6.30E-04	0.0663	0.0175	5.80E-04	0.0181
	Total	6.30E-04	0.0663	0.0175	5.80E-04	0.0181
TOTAL		0.0078	0.0735	0.0175	0.0078	0.0253

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2020					
	Archit. Coating	0	0		0	0
	Off-Road	1.45E-02	1.45E-02		1.45E-02	1.45E-02
	Total	1.45E-02	1.45E-02		1.45E-02	1.45E-02
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	1.42E-03	0.155	0.041	1.31E-03	0.0424
	Total	1.42E-03	0.155	0.041	1.31E-03	0.0424
TOTAL		0.0159	0.1695	0.0410	0.0158	0.0569

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2021					
	Archit. Coating	0	0		0	0
	Off-Road	1.20E-02	1.20E-02		1.20E-02	1.20E-02
	Total	1.20E-02	1.20E-02		1.20E-02	1.20E-02
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	1.34E-03	0.1514	0.0401	1.24E-03	0.0413
	Total	1.34E-03	0.1514	0.0401	1.24E-03	0.0413
TOTAL		0.0133	0.1634	0.0401	0.0132	0.0533

P1 Paving

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2021					
	Off-Road	0.0136	0.0136		0.0125	0.0125
	Paving	0	0		0	0
	Total	0.0136	0.0136		0.0125	0.0125
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	3.00E-05	3.06E-03	8.10E-04	2.00E-05	8.40E-04
	Total	3.00E-05	3.06E-03	8.10E-04	2.00E-05	8.40E-04
TOTAL		0.0136	0.0167	0.0008	0.0125	0.0133

P2 Demolition							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.0443	0.00671	0	0.00671
	Off-Road		4.65E-02	4.65E-02		4.32E-02	4.32E-02
	Total		4.65E-02	9.09E-02	0.00671	4.32E-02	4.99E-02
Offsite							
	Hauling		0.0004	0.00807	0.00212	0.00038	0.0025
	Vendor		1.00E-05	0.00037	0.0001	1.00E-05	0.00011
	Worker		4.00E-05	0.00459	0.00122	4.00E-05	0.00125
	Total		4.50E-04	0.013	0.00344	4.30E-04	0.00386
TOTAL			0.0470	0.1039	0.0102	0.0436	0.0538

P2 Site Preparation							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.1545	0.0849	0	0.0849
	Off-Road		4.09E-02	4.09E-02		3.76E-02	3.76E-02
	Total		4.09E-02	1.95E-01	0.0849	3.76E-02	1.23E-01
Offsite							
	Hauling		0	0	0	0	0
	Vendor		1.00E-05	0.00024	0.00007	1.00E-05	0.00008
	Worker		3.00E-05	0.00367	0.00097	3.00E-05	0.001
	Total		4.00E-05	0.00391	0.00104	4.00E-05	0.00108
TOTAL			0.0409	0.1993	0.0859	0.0376	0.1236

P2 Grading							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.1115	0.0462	0	0.0462
	Off-Road		5.96E-02	5.96E-02		5.48E-02	5.48E-02
	Total		5.96E-02	1.71E-01	0.0462	5.48E-02	1.01E-01
Offsite							
	Hauling		0.00058	0.0119	0.00312	0.00056	0.00368
	Vendor		1.00E-05	0.00037	0.0001	1.00E-05	0.00011
	Worker		5.00E-05	0.00612	0.00162	5.00E-05	0.00167
	Total		6.40E-04	0.0184	0.00484	6.20E-04	0.00546
TOTAL			0.0602	0.1895	0.0510	0.0554	0.1065

P2 Building Construction							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		0.0484	0.0484		0.0455	0.0455
	Total		0.0484	0.0484		0.0455	0.0455
Offsite							
	Hauling		0	0	0	0	0
	Vendor		1.61E-03	0.0487	0.0137	1.54E-03	0.0153
	Worker		1.72E-03	0.1946	0.0516	1.59E-03	0.0531
	Total		3.33E-03	0.2432	0.0653	3.13E-03	0.0684
TOTAL			0.0517	0.2916	0.0653	0.0486	0.1139

		2022	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		1.05E-01	1.05E-01		9.90E-02	9.90E-02
	Total		1.05E-01	1.05E-01		9.90E-02	9.90E-02
Offsite							
	Hauling		0	0	0	0	0
	Vendor		3.61E-03	0.1248	0.0353	3.46E-03	0.0388
	Worker		4.30E-03	0.5008	0.1327	3.96E-03	0.1367
	Total		7.91E-03	0.6255	0.168	7.42E-03	0.1755
TOTAL			0.1131	0.7307	0.1680	0.1064	0.2745

		2023	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		0.091	0.091		0.0856	0.0856
	Total		0.091	0.091		0.0856	0.0856
Offsite							
	Hauling		0	0	0	0	0
	Vendor		1.70E-03	0.1229	0.0353	1.62E-03	0.0369
	Worker		4.18E-03	0.5007	0.1327	3.85E-03	0.1366
	Total		5.88E-03	0.6235	0.168	5.47E-03	0.1735
TOTAL			0.0969	0.7145	0.1680	0.0911	0.2591

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2024					
	Off-Road	0.0803	0.0803		0.0756	0.0756
	Total	0.0803	0.0803		0.0756	0.0756
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.69E-03	0.1238	0.0356	1.61E-03	0.0372
	Worker	4.15E-03	0.5044	0.1337	3.82E-03	0.1376
	Total	5.84E-03	0.6282	0.1693	5.43E-03	0.1748
TOTAL		0.0861	0.7085	0.1693	0.0810	0.2504

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2025					
	Off-Road	4.48E-03	4.48E-03		4.22E-03	4.22E-03
	Total	4.48E-03	4.48E-03		4.22E-03	4.22E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.10E-04	8.03E-03	2.31E-03	1.00E-04	2.41E-03
	Worker	2.60E-04	0.0327	8.68E-03	2.40E-04	8.92E-03
	Total	3.70E-04	0.0408	0.011	3.40E-04	0.0113
TOTAL		0.0049	0.0453	0.0110	0.0046	0.0155

P2 Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2022					
	Archit. Coating	0	0		0	0
	Off-Road	4.09E-03	4.09E-03		4.09E-03	4.09E-03
	Total	4.09E-03	4.09E-03		4.09E-03	4.09E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	3.30E-04	0.0387	0.0103	3.10E-04	0.0106
	Total	3.30E-04	0.0387	0.0103	3.10E-04	0.0106
TOTAL		0.0044	0.0428	0.0103	0.0044	0.0147

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2023					
	Archit. Coating	0	0		0	0
	Off-Road	9.21E-03	9.21E-03		9.21E-03	9.21E-03
	Total	9.21E-03	9.21E-03		9.21E-03	9.21E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	8.40E-04	0.1007	0.0267	7.70E-04	0.0275
	Total	8.40E-04	0.1007	0.0267	7.70E-04	0.0275
TOTAL		0.0101	0.1099	0.0267	0.0100	0.0367

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2024					
	Archit. Coating	0	0		0	0
	Off-Road	7.98E-03	7.98E-03		7.98E-03	7.98E-03
	Total	7.98E-03	7.98E-03		7.98E-03	7.98E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	8.30E-04	0.1014	0.0269	7.70E-04	0.0277
	Total	8.30E-04	0.1014	0.0269	7.70E-04	0.0277
TOTAL		0.0088	0.1094	0.0269	0.0088	0.0357

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2025					
	Archit. Coating	0	0		0	0
	Off-Road	6.64E-03	6.64E-03		6.64E-03	6.64E-03
	Total	6.64E-03	6.64E-03		6.64E-03	6.64E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	8.00E-04	0.0999	0.0265	7.40E-04	0.0272
	Total	8.00E-04	0.0999	0.0265	7.40E-04	0.0272
TOTAL		0.0074	0.1065	0.0265	0.0074	0.0338

P2 Paving							
			Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2025					
	Off-Road		0.0126	0.0126		0.0116	0.0116
	Paving		0	0		0	0
	Total		0.0126	0.0126		0.0116	0.0116
Offsite							
	Hauling		0	0	0	0	0
	Vendor		0	0	0	0	0
	Worker		4.00E-05	4.58E-03	1.22E-03	3.00E-05	1.25E-03
	Total		4.00E-05	4.58E-03	1.22E-03	3.00E-05	1.25E-03
TOTAL			0.0126	0.0172	0.0012	0.0116	0.0129

P3 Demolition							
			Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2026					
	Fugitive Dust		0	0.0363	5.50E-03	0	5.50E-03
	Off-Road		0.0256	0.0256		0.0238	0.0238
	Total		0.0256	0.0619	5.50E-03	0.0238	0.0293
Offsite							
	Hauling		1.10E-04	6.40E-03	1.74E-03	1.10E-04	1.85E-03
	Vendor		0	3.60E-04	1.00E-04	0	1.10E-04
	Worker		4.00E-05	4.58E-03	1.22E-03	3.00E-05	1.25E-03
	Total		1.50E-04	0.0113	3.06E-03	1.40E-04	3.21E-03
TOTAL			0.0258	0.0732	0.0086	0.0239	0.0325

P3 Site Preparation							
			Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2026					
	Fugitive Dust		0	0.1545	0.0849	0	0.0849
	Off-Road		0.0217	0.0217		0.02	0.02
	Total		0.0217	0.1762	0.0849	0.02	0.1049
Offsite							
	Hauling		0	0	0	0	0
	Vendor		0	2.40E-04	7.00E-05	0	7.00E-05
	Worker		3.00E-05	3.67E-03	9.70E-04	3.00E-05	1.00E-03
	Total		3.00E-05	3.91E-03	1.04E-03	3.00E-05	1.07E-03
TOTAL			0.0217	0.1801	0.0859	0.0200	0.1060

P3 Grading							
			Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2026					
	Fugitive Dust		0	0.1113	0.0461	0	0.0461
	Off-Road		0.0339	0.0339		0.0312	0.0312
	Total		0.0339	0.1452	0.0461	0.0312	0.0773
Offsite							
	Hauling		2.00E-05	1.15E-03	3.10E-04	2.00E-05	3.30E-04
	Vendor		0	3.60E-04	1.00E-04	0	1.10E-04
	Worker		5.00E-05	6.11E-03	1.62E-03	4.00E-05	1.66E-03
	Total		7.00E-05	7.62E-03	2.03E-03	6.00E-05	2.10E-03
TOTAL			0.0340	0.1528	0.0481	0.0313	0.0794

P3 Building Construction							
			Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2026					
	Off-Road		0.0266	0.0266		0.0251	0.0251
	Total		0.0266	0.0266		0.0251	0.0251
Offsite							
	Hauling		0	0	0	0	0
	Vendor		2.70E-04	0.0208	5.99E-03	2.60E-04	6.25E-03
	Worker		6.10E-04	0.0782	0.0207	5.60E-04	0.0213
	Total		8.80E-04	0.099	0.0267	8.20E-04	0.0275
TOTAL			0.0275	0.1256	0.0267	0.0259	0.0526

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2027					
	Off-Road	0.0689	0.0689		0.0648	0.0648
	Total	0.0689	0.0689		0.0648	0.0648
Offsite						
	Hauling	0	0	0	0	0
	Vendor	6.90E-04	0.0538	0.0155	6.60E-04	0.0162
	Worker	1.49E-03	0.2019	0.0536	1.37E-03	0.0549
	Total	2.18E-03	0.2557	0.0691	2.03E-03	0.0711
TOTAL		0.0711	0.3246	0.0691	0.0668	0.1359

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2028					
	Off-Road	0.0686	0.0686		0.0645	0.0645
	Total	0.0686	0.0686		0.0645	0.0645
Offsite						
	Hauling	0	0	0	0	0
	Vendor	6.80E-04	0.0536	0.0154	6.50E-04	0.0161
	Worker	1.37E-03	0.201	0.0534	1.26E-03	0.0546
	Total	2.05E-03	0.2546	0.0688	1.91E-03	0.0707
TOTAL		0.0707	0.3232	0.0688	0.0664	0.1352

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2029					
	Off-Road	0.0689	0.0689		0.0648	0.0648
	Total	0.0689	0.0689		0.0648	0.0648
Offsite						
	Hauling	0	0	0	0	0
	Vendor	6.70E-04	0.0538	0.0155	6.40E-04	0.0161
	Worker	1.28E-03	0.2017	0.0536	1.18E-03	0.0548
	Total	1.95E-03	0.2555	0.0691	1.82E-03	0.0709
TOTAL		0.0709	0.3244	0.0691	0.0666	0.1357

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2030					
	Off-Road	1.26E-03	1.26E-03		1.26E-03	1.26E-03
	Total	1.26E-03	1.26E-03		1.26E-03	1.26E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.00E-05	3.50E-03	1.01E-03	4.00E-05	1.05E-03
	Worker	8.00E-05	0.0131	3.49E-03	7.00E-05	3.56E-03
	Total	1.20E-04	0.0166	4.50E-03	1.10E-04	4.61E-03
TOTAL		0.0014	0.0179	0.0045	0.0014	0.0059

P3 Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2027					
	Archit. Coating	0	0		0	0
	Off-Road	2.60E-03	2.60E-03		2.60E-03	2.60E-03
	Total	2.60E-03	2.60E-03		2.60E-03	2.60E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.10E-04	0.0154	4.09E-03	1.00E-04	4.20E-03
	Total	1.10E-04	0.0154	4.09E-03	1.00E-04	4.20E-03
TOTAL		0.0027	0.0180	0.0041	0.0027	0.0068

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2028					
	Archit. Coating	0	0		0	0
	Off-Road	6.70E-03	6.70E-03		6.70E-03	6.70E-03
	Total	6.70E-03	6.70E-03		6.70E-03	6.70E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	2.70E-04	0.0397	0.0105	2.50E-04	0.0108
	Total	2.70E-04	0.0397	0.0105	2.50E-04	0.0108
TOTAL		0.0070	0.0464	0.0105	0.0070	0.0175

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2029					
	Archit. Coating	0	0		0	0
	Off-Road	6.72E-03	6.72E-03		6.72E-03	6.72E-03
	Total	6.72E-03	6.72E-03		6.72E-03	6.72E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	2.50E-04	0.0398	0.0106	2.30E-04	0.0108
	Total	2.50E-04	0.0398	0.0106	2.30E-04	0.0108
TOTAL		0.0070	0.0465	0.0106	0.0070	0.0175

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2030					
	Archit. Coating	0	0		0	0
	Off-Road	2.62E-03	2.62E-03		2.62E-03	2.62E-03
	Total	2.62E-03	2.62E-03		2.62E-03	2.62E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	2.30E-04	0.0393	0.0105	2.10E-04	0.0107
	Total	2.30E-04	0.0393	0.0105	2.10E-04	0.0107
TOTAL		0.0029	0.0419	0.0105	0.0028	0.0133

P3 Paving						
		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2030					
	Off-Road	9.92E-03	9.92E-03		9.92E-03	9.92E-03
	Paving	0	0		0	0
	Total	9.92E-03	9.92E-03		9.92E-03	9.92E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	3.00E-05	4.57E-03	1.22E-03	2.00E-05	1.24E-03
	Total	3.00E-05	4.57E-03	1.22E-03	2.00E-05	1.24E-03
TOTAL		0.0100	0.0145	0.0012	0.0099	0.0112

P4 Demolition						
		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2031					
	Fugitive Dust	0	0.028	4.24E-03	0	4.24E-03
	Off-Road	0.0105	0.0105		0.0105	0.0105
	Total	0.0105	0.0385	4.24E-03	0.0105	0.0148
Offsite						
	Hauling	8.00E-05	4.93E+03	1.34E-03	8.00E-05	1.42E-03
	Vendor	0	3.60E-04	1.00E-04	0	1.10E-04
	Worker	3.00E-05	4.57E-03	1.22E-03	2.00E-05	1.24E-03
	Total	1.10E-04	9.86E-03	2.66E-03	1.00E-04	2.77E-03
TOTAL		0.0106	0.0484	0.0069	0.0106	0.0176

P4 Site Preparation						
		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2031					
	Fugitive Dust	0	0.1545	0.0849	0	0.0849
	Off-Road	8.73E-03	8.73E-03		8.73E-03	8.73E-03
	Total	8.73E-03	0.1632	0.0849	8.73E-03	0.0936
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	2.40E-04	7.00E-05	0	7.00E-05
	Worker	2.00E-05	3.66E-03	9.70E-04	2.00E-05	9.90E-04
	Total	2.00E-05	3.90E-03	1.04E-03	2.00E-05	1.06E-03
TOTAL		0.0088	0.1671	0.0859	0.0088	0.0947

P4 Grading						
		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2031					
	Fugitive Dust	0	0.1113	0.0461	0	0.0461
	Off-Road	0.0146	0.0146		0.0146	0.0146
	Total	0.0146	0.1259	0.0461	0.0146	0.0608
Offsite						
	Hauling	1.00E-05	9.20E-04	2.50E-04	1.00E-05	2.60E-04
	Vendor	0	3.60E-04	1.00E-04	0	1.10E-04
	Worker	3.00E-05	6.10E-03	1.62E-03	3.00E-05	1.65E-03
	Total	4.00E-05	7.38E-03	1.97E-03	4.00E-05	2.02E-03
TOTAL		0.0146	0.1333	0.0481	0.0146	0.0628

P4 Building Construction						
		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2031					
	Off-Road	7.48E-03	7.48E-03		7.48E-03	7.48E-03
	Total	7.48E-03	7.48E-03		7.48E-03	7.48E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.90E-04	0.0157	4.52E-03	1.80E-04	4.70E-03
	Worker	3.10E-04	0.0554	0.0147	2.80E-04	0.015
	Total	5.00E-04	0.0711	0.0193	4.60E-04	0.0197
TOTAL		0.0080	0.0786	0.0193	0.0079	0.0272

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2032					
	Off-Road	0.0194	0.0194		0.0194	0.0194
	Total	0.0194	0.0194		0.0194	0.0194
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.80E-04	0.0407	0.0117	4.60E-04	0.0122
	Worker	7.50E-04	0.1437	0.0382	6.90E-04	0.0389
	Total	1.23E-03	0.1844	0.0499	1.15E-03	0.0511
TOTAL		0.0206	0.2038	0.0499	0.0206	0.0705

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2033					
	Off-Road	0.0193	0.0193		0.0193	0.0193
	Total	0.0193	0.0193		0.0193	0.0193
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.70E-04	0.0404	0.0116	4.50E-04	0.0121
	Worker	6.90E-04	0.1425	0.0379	6.40E-04	0.0386
	Total	1.16E-03	0.1829	0.0496	1.09E-03	0.0506
TOTAL		0.0205	0.2022	0.0496	0.0204	0.0699

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2034					
	Off-Road	0.0193	0.0193		0.0193	0.0193
	Total	0.0193	0.0193		0.0193	0.0193
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.60E-04	0.0403	0.0116	4.40E-04	0.0121
	Worker	6.50E-04	0.1425	0.0379	5.90E-04	0.0385
	Total	1.11E-03	0.1828	0.0496	1.03E-03	0.0506
TOTAL		0.0204	0.2021	0.0496	0.0203	0.0699

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2035					
	Off-Road	7.70E-04	7.70E-04		7.70E-04	7.70E-04
	Total	7.70E-04	7.70E-04		7.70E-04	7.70E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	3.00E-05	2.64E-03	7.60E-04	3.00E-05	7.90E-04
	Worker	4.00E-05	9.31E-03	2.48E-03	4.00E-05	2.52E-03
	Total	7.00E-05	0.012	3.24E-03	7.00E-05	3.31E-03
TOTAL		0.0008	0.0128	0.0032	0.0008	0.0041

P4 Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2032					
	Archit. Coating	0	0		0	0
	Off-Road	1.03E-03	1.03E-03		1.03E-03	1.03E-03
	Total	1.03E-03	1.03E-03		1.03E-03	1.03E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	6.00E-05	0.0113	3.00E-03	5.00E-05	3.05E-03
	Total	6.00E-05	0.0113	3.00E-03	5.00E-05	3.05E-03
TOTAL		0.0011	0.0123	0.0030	0.0011	0.0041

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2033					
	Archit. Coating	0	0		0	0
	Off-Road	2.64E-03	2.64E-03		2.64E-03	2.64E-03
	Total	2.64E-03	2.64E-03		2.64E-03	2.64E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.40E-04	0.029	7.72E-03	1.30E-04	7.85E-03
	Total	1.40E-04	0.029	7.72E-03	1.30E-04	7.85E-03
TOTAL		0.0028	0.0316	0.0077	0.0028	0.0105

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2034					
	Archit. Coating	0	0		0	0
	Off-Road	2.64E-03	2.64E-03		2.64E-03	2.64E-03
	Total	2.64E-03	2.64E-03		2.64E-03	2.64E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.30E-04	0.029	7.72E-03	1.20E-04	7.84E-03
	Total	1.30E-04	0.029	7.72E-03	1.20E-04	7.84E-03
TOTAL		0.0028	0.0316	0.0077	0.0028	0.0105

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2035					
	Archit. Coating	0	0		0	0
	Off-Road	1.28E-03	1.28E-03		1.28E-03	1.28E-03
	Total	1.28E-03	1.28E-03		1.28E-03	1.28E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.20E-04	0.0289	7.69E-03	1.10E-04	7.81E-03
	Total	1.20E-04	0.0289	7.69E-03	1.10E-04	7.81E-03
TOTAL		0.0014	0.0302	0.0077	0.0014	0.0091

P4 Paving

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2035					
	Off-Road	5.43E-03		5.43E-03	5.43E-03	
	Paving	0		0	0	
	Total	5.43E-03		5.43E-03	5.43E-03	
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	2.00E-05	4.41E-03	1.17E-03	2.00E-05	1.19E-03
	Total	2.00E-05	4.41E-03	1.17E-03	2.00E-05	1.19E-03
TOTAL		0.0055	0.0044	0.0066	0.0055	0.0012

Average Daily Emissions and Emission Rates - Mitigated

Onsite Construction PM10 Exhaust Emissions¹

Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/hr)	Emission Rate (g/s)	# of Workdays/Year	Risk Scalar ²
2018	0.0442	88.44	261	0.34	4.24E-02	5.34E-03	261	1.00
2019	0.0374	74.76	261	0.29	3.58E-02	4.51E-03	261	1.00
2020	0.0338	67.56	262	0.26	3.22E-02	4.06E-03	262	1.00
2021	0.0379	75.86	261	0.29	3.63E-02	4.58E-03	261	1.00
2022	0.0234	46.82	260	0.18	2.25E-02	2.84E-03	260	1.00
2023	0.0211	42.16	260	0.16	2.03E-02	2.55E-03	260	1.00
2024	0.0185	37	262	0.14	1.77E-02	2.22E-03	262	1.00
2025	0.0039	7.7	258	0.03	3.73E-03	4.70E-04	261	0.99
2026	0.0179	35.88	261	0.14	1.72E-02	2.17E-03	261	1.00
2027	0.0153	30.58	261	0.12	1.46E-02	1.85E-03	261	1.00
2028	0.0158	31.6	260	0.12	1.52E-02	1.91E-03	260	1.00
2029	0.0159	31.82	261	0.12	1.52E-02	1.92E-03	261	1.00
2030	0.0022	4.38	258	0.02	2.12E-03	2.67E-04	261	0.99
2031	0.0069	13.84	261	0.05	6.63E-03	8.35E-04	261	1.00
2032	0.0049	9.78	262	0.04	4.67E-03	5.88E-04	262	1.00
2033	0.0051	10.2	260	0.04	4.90E-03	6.18E-04	260	1.00
2034	0.0051	10.2	260	0.04	4.90E-03	6.18E-04	260	1.00
2035	0.0012	2.36	259	0.01	1.14E-03	1.44E-04	261	0.99

Offsite Construction PM10 Exhaust Emissions¹

Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Hauling Emissions w/in 1,000 ft (lbs/day) ³	Emission Rate (lbs/hr)	Emission Rate (g/s)
2018	0.0178	35.58	261	0.14	1.00E-02	1.25E-03	1.57E-04
2019	0.0317	63.46	261	0.24	1.78E-02	2.23E-03	2.81E-04
2020	0.0247	49.44	262	0.19	1.38E-02	1.73E-03	2.18E-04
2021	0.0063	12.5	261	0.05	3.51E-03	4.39E-04	5.53E-05
2022	0.0082	16.48	260	0.06	4.65E-03	5.81E-04	7.32E-05
2023	0.0067	13.44	260	0.05	3.79E-03	4.74E-04	5.97E-05
2024	0.0067	13.34	262	0.05	3.73E-03	4.67E-04	5.88E-05
2025	0.0012	2.42	258	0.01	6.88E-04	8.60E-05	1.08E-05
2026	0.0011	2.26	261	0.01	6.35E-04	7.94E-05	1.00E-05
2027	0.0023	4.58	261	0.02	1.29E-03	1.61E-04	2.03E-05
2028	0.0023	4.64	260	0.02	1.31E-03	1.64E-04	2.06E-05
2029	0.0022	4.4	261	0.02	1.24E-03	1.55E-04	1.95E-05
2030	0.0004	0.76	258	0.00	2.16E-04	2.70E-05	3.40E-06
2031	0.0007	1.34	261	0.01	3.76E-04	4.71E-05	5.93E-06
2032	0.0013	2.58	262	0.01	7.22E-04	9.03E-05	1.14E-05
2033	0.0013	2.6	260	0.01	7.33E-04	9.17E-05	1.15E-05
2034	0.0012	2.48	260	0.01	6.99E-04	8.74E-05	1.10E-05
2035	0.0002	0.42	259	0.00	1.19E-04	1.49E-05	1.87E-06

Note: Emissions evenly distributed over 98 modeled volume sources.

Hauling Length (miles) 20.0

Haul Length within 1,000 ft of Site (mile)³ 1.47

Hours per work day (7:00 AM to 4:00 PM, 1-hour of breaks)⁴ 8 hours

¹ DPM emissions taken as PM₁₀ exhaust emissions from CalEEMod average daily emissions.

² Risk scalars determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App C - Risk Calculations).

³ Emissions from CalEEMod offsite average daily emissions, which is based on proportioned haul truck trip distance of 20 miles (CalEEMod Default), are adjusted to evaluate emissions from the 1.47-mile route within 1,000 of the project site.

⁴ Work hours applied in By Hour/Day (HRDOW) variable emissions module in air dispersion model (see App B - Air Dispersion Model Output Files).

Annual Construction Emissions

P1 Demolition

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2018					
	Fugitive Dust	0	0.0315	4.77E-03	0	4.77E-03
	Off-Road	8.72E-03	8.72E-03		8.12E-03	8.12E-03
	Total	8.72E-03	4.03E-02	4.77E-03	8.12E-03	1.29E-02
Offsite						
	Hauling	4.90E-04	6.78E-03	1.74E-03	4.70E-04	2.21E-03
	Vendor	5.00E-05	4.10E-04	1.00E-04	5.00E-05	1.50E-04
	Worker	4.00E-05	4.59E-03	1.22E-03	4.00E-05	1.26E-03
	Total	5.80E-04	0.0118	3.06E-03	5.60E-04	3.62E-03
TOTAL		0.0093	0.0521	0.0078	0.0087	0.0165

P1 Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2018					
	Fugitive Dust	0	0.1004	0.0552	0	0.0552
	Off-Road	5.80E-03	5.80E-03		5.33E-03	5.33E-03
	Total	5.80E-03	1.06E-01	0.0552	5.33E-03	6.05E-02
Offsite						
	Hauling	0	0	0	0	0
	Vendor	3.00E-05	2.00E-04	5.00E-05	2.00E-05	8.00E-05
	Worker	3.00E-05	2.75E-03	7.30E-04	2.00E-05	7.50E-04
	Total	6.00E-05	2.95E-03	7.80E-04	4.00E-05	8.30E-04
TOTAL		0.0059	0.1092	0.0560	0.0054	0.0613

P1 Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2018					
	Fugitive Dust	0	0.0969	0.0401	0	0.0401
	Off-Road	1.19E-02	1.19E-02		1.09E-02	1.09E-02
	Total	1.19E-02	1.09E-01	0.0401	1.09E-02	5.10E-02
Offsite						
	Hauling	1.94E-03	0.027	6.94E-03	1.86E-03	8.79E-03
	Vendor	5.00E-05	4.10E-04	1.00E-04	5.00E-05	1.50E-04
	Worker	6.00E-05	6.12E-03	1.62E-03	6.00E-05	1.68E-03
	Total	2.05E-03	0.0335	8.66E-03	1.97E-03	0.0106
TOTAL		0.0140	0.1423	0.0488	0.0129	0.0616

P1 Building Construction

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2018					
	Off-Road	1.78E-02	1.78E-02		1.71E-02	1.71E-02
	Total	1.78E-02	1.78E-02		1.71E-02	1.71E-02
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.19E-02	0.0924	0.0235	1.14E-02	0.0348
	Worker	3.20E-03	0.3273	0.0866	2.95E-03	0.0896
	Total	1.51E-02	0.4197	0.1101	1.43E-02	0.1244
TOTAL		0.0329	0.4375	0.1101	0.0314	0.1415

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2019					
	Off-Road	3.63E-02	3.63E-02		3.48E-02	3.48E-02
	Total	3.63E-02	3.63E-02		3.48E-02	3.48E-02
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.39E-02	0.2132	0.0552	2.28E-02	0.078
	Worker	7.27E-03	0.7693	0.2037	6.70E-03	0.2104
	Total	3.11E-02	0.9825	0.2589	2.95E-02	0.2884
TOTAL		0.0674	1.0188	0.2589	0.0643	0.3232

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2020					
	Off-Road	3.16E-02	3.16E-02		3.03E-02	3.03E-02
	Total	3.16E-02	3.16E-02		3.03E-02	3.03E-02
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.62E-02	0.2063	0.0554	1.55E-02	0.071
	Worker	7.07E-03	0.7721	0.2045	6.52E-03	0.211
	Total	2.33E-02	0.9784	0.2599	2.21E-02	0.282
TOTAL		0.0549	1.0100	0.2599	0.0524	0.3123

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2021					
	Off-Road	1.65E-03	1.65E-03		1.59E-03	1.59E-03
	Total	1.65E-03	1.65E-03		1.59E-03	1.59E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.00E-04	0.012	3.3800e-3	3.80E-04	3.76E-03
	Worker					
	Total	4.20E-04	0.0471	0.0125	3.80E-04	0.0129
TOTAL		0.0008	0.0591	0.0159	0.0008	0.0166

P1 Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2019					
	Archit. Coating	0	0		0	0
	Off-Road	1.08E-03	1.08E-03		1.08E-03	1.08E-03
	Total	1.08E-03	1.08E-03		1.08E-03	1.08E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	6.30E-04	0.0663	0.0175	5.80E-04	0.0181
	Total	6.30E-04	0.0663	0.0175	5.80E-04	0.0181
TOTAL		0.0017	0.0674	0.0175	0.0017	0.0192

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2020					
	Archit. Coating	0	0		0	0
	Off-Road	2.18E-03	2.18E-03		2.18E-03	2.18E-03
	Total	2.18E-03	2.18E-03		2.18E-03	2.18E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	1.42E-03	0.155	0.041	1.31E-03	0.0424
	Total	1.42E-03	0.155	0.041	1.31E-03	0.0424
TOTAL		0.0036	0.1572	0.0410	0.0035	0.0446

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2021					
	Archit. Coating	0	0		0	0
	Off-Road	1.81E-03	1.81E-03		1.81E-03	1.81E-03
	Total	1.81E-03	1.81E-03		1.81E-03	1.81E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	1.34E-03	0.1514	0.0401	1.24E-03	0.0413
	Total	1.34E-03	0.1514	0.0401	1.24E-03	0.0413
TOTAL		0.0032	0.1532	0.0401	0.0031	0.0431

P1 Paving							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		2.03E-03	2.03E-03		1.87E-03	1.87E-03
	Paving		0	0		0	0
	Total		2.03E-03	2.03E-03		1.87E-03	1.87E-03
Offsite							
	Hauling		0	0	0	0	0
	Vendor		0	0	0	0	0
	Worker		3.00E-05	3.06E-03	8.10E-04	2.00E-05	8.40E-04
	Total		3.00E-05	3.06E-03	8.10E-04	2.00E-05	8.40E-04
TOTAL			0.0021	0.0051	0.0008	0.0019	0.0027

P2 Demolition							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.0443	6.71E-03	0	6.71E-03
	Off-Road		6.98E-03	6.98E-03		6.48E-03	6.48E-03
	Total		6.98E-03	5.13E-02	6.71E-03	6.48E-03	1.32E-02
Offsite							
	Hauling		4.00E-04	8.07E-03	2.12E-03	3.80E-04	2.50E-03
	Vendor		1.00E-05	3.70E-04	1.00E-04	1.00E-05	1.10E-04
	Worker		4.00E-05	4.59E-03	1.22E-03	4.00E-05	1.25E-03
	Total		4.50E-04	0.013	3.44E-03	4.30E-04	3.86E-03
TOTAL			0.0074	0.0643	0.0102	0.0069	0.0171

P2 Site Preparation							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.1545	0.0849	0	0.0849
	Off-Road		6.13E-03	6.13E-03		5.64E-03	5.64E-03
	Total		6.13E-03	1.61E-01	0.0849	5.64E-03	9.06E-02
Offsite							
	Hauling		0	0	0	0	0
	Vendor		1.00E-05	2.40E-04	7.00E-05	1.00E-05	8.00E-05
	Worker		3.00E-05	3.67E-03	9.70E-04	3.00E-05	1.00E-03
	Total		4.00E-05	3.91E-03	1.04E-03	4.00E-05	1.08E-03
TOTAL			0.0062	0.1645	0.0859	0.0057	0.0917

P2 Grading							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	0.1115	0.0462	0	0.0462
	Off-Road		8.93E-03	8.93E-03		8.22E-03	8.22E-03
	Total		8.93E-03	1.20E-01	0.0462	8.22E-03	5.44E-02
Offsite							
	Hauling		5.80E-04	0.0119	3.12E-03	5.60E-04	3.68E-03
	Vendor		1.00E-05	3.70E-04	1.00E-04	1.00E-05	1.10E-04
	Worker		5.00E-05	6.12E-03	1.62E-03	5.00E-05	1.67E-03
	Total		6.40E-04	0.0184	4.84E-03	6.20E-04	5.46E-03
TOTAL			0.0096	0.1388	0.0510	0.0088	0.0599

P2 Building Construction							
		2021	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		0.0104	0.0104		0.01	0.01
	Total		0.0104	0.0104		0.01	0.01
Offsite							
	Hauling		0	0	0	0	0
	Vendor		1.61E-03	0.0487	0.0137	1.54E-03	0.0153
	Worker		1.72E-03	0.1946	0.0516	1.59E-03	0.0531
	Total		3.33E-03	0.2432	0.0653	3.13E-03	0.0684
TOTAL			0.0137	0.2536	0.0653	0.0131	0.0784

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2022				
	Off-Road	2.28E-02	2.28E-02		2.19E-02	2.19E-02
	Total	2.28E-02	2.28E-02		2.19E-02	2.19E-02
Offsite						
	Hauling	0	0	0	0	0
	Vendor	3.61E-03	0.1248	0.0353	3.46E-03	0.0388
	Worker	4.30E-03	0.5008	0.1327	3.96E-03	0.1367
	Total	7.91E-03	0.6255	0.168	7.42E-03	0.1755
TOTAL		0.0307	0.6483	0.1680	0.0293	0.1974

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2023				
	Off-Road	0.0197	0.0197		0.0189	0.0189
	Total	0.0197	0.0197		0.0189	0.0189
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.70E-03	0.1229	0.0353	1.62E-03	0.0369
	Worker	4.18E-03	0.5007	0.1327	3.85E-03	0.1366
	Total	5.88E-03	0.6235	0.168	5.47E-03	0.1735
TOTAL		0.0256	0.6432	0.1680	0.0244	0.1924

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2024				
	Off-Road	0.0173	0.0173		0.0166	0.0166
	Total	0.0173	0.0173		0.0166	0.0166
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.69E-03	0.1238	0.0356	1.61E-03	0.0372
	Worker	4.15E-03	0.5044	0.1337	3.82E-03	0.1376
	Total	5.84E-03	0.6282	0.1693	5.43E-03	0.1748
TOTAL		0.0231	0.6455	0.1693	0.0220	0.1914

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2025				
	Off-Road	9.70E-04	9.70E-04		9.30E-04	9.30E-04
	Total	9.70E-04	9.70E-04		9.30E-04	9.30E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.10E-04	8.03E-03	2.31E-03	1.00E-04	2.41E-03
	Worker	2.60E-04	0.0327	8.68E-03	2.40E-04	8.92E-03
	Total	3.70E-04	0.0408	0.011	3.40E-04	0.0113
TOTAL		0.0013	0.0418	0.0110	0.0013	0.0122

P2 Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		2022				
	Archit. Coating	0	0		0	0
	Off-Road	6.10E-04	6.10E-04		6.10E-04	6.10E-04
	Total	6.10E-04	6.10E-04		6.10E-04	6.10E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	3.30E-04	0.0387	0.0103	3.10E-04	0.0106
	Total	3.30E-04	0.0387	0.0103	3.10E-04	0.0106
TOTAL		0.0009	0.0393	0.0103	0.0009	0.0112

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2023					
	Archit. Coating	0	0		0	0
	Off-Road	1.38E-03	1.38E-03		1.38E-03	1.38E-03
	Total	1.38E-03	1.38E-03		1.38E-03	1.38E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	8.40E-04	0.1007	0.0267	7.70E-04	0.0275
	Total	8.40E-04	0.1007	0.0267	7.70E-04	0.0275
TOTAL		0.0022	0.1021	0.0267	0.0022	0.0289

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2024					
	Archit. Coating	0	0		0	0
	Off-Road	1.20E-03	1.20E-03		1.20E-03	1.20E-03
	Total	1.20E-03	1.20E-03		1.20E-03	1.20E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	8.30E-04	0.1014	0.0269	7.70E-04	0.0277
	Total	8.30E-04	0.1014	0.0269	7.70E-04	0.0277
TOTAL		0.0020	0.1026	0.0269	0.0020	0.0289

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2025					
	Archit. Coating	0	0		0	0
	Off-Road	1.00E-03	1.00E-03		1.00E-03	1.00E-03
	Total	1.00E-03	1.00E-03		1.00E-03	1.00E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	8.00E-04	0.0999	0.0265	7.40E-04	0.0272
	Total	8.00E-04	0.0999	0.0265	7.40E-04	0.0272
TOTAL		0.0018	0.1009	0.0265	0.0017	0.0282

P2 Paving

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2025					
	Off-Road	1.88E-03	1.88E-03		1.73E-03	1.73E-03
	Paving	0	0		0	0
	Total	1.88E-03	1.88E-03		1.73E-03	1.73E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	4.00E-05	4.58E-03	1.22E-03	3.00E-05	1.25E-03
	Total	4.00E-05	4.58E-03	1.22E-03	3.00E-05	1.25E-03
TOTAL		0.0019	0.0065	0.0012	0.0018	0.0030

P3 Demolition

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2026					
	Fugitive Dust	0	0.0363	5.50E-03	0	5.50E-03
	Off-Road	3.84E-03	3.84E-03		3.56E-03	3.56E-03
	Total	3.84E-03	0.0401	5.50E-03	3.56E-03	9.06E-03
Offsite						
	Hauling	1.10E-04	6.40E-03	1.74E-03	1.10E-04	1.85E-03
	Vendor	0	3.60E-04	1.00E-04	0	1.10E-04
	Worker	4.00E-05	4.58E-03	1.22E-03	3.00E-05	1.25E-03
	Total	1.50E-04	0.0113	3.06E-03	1.40E-04	3.21E-03
TOTAL		0.0040	0.0514	0.0086	0.0037	0.0123

P3 Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2026					
	Fugitive Dust	0	0.1545	0.0849	0	0.0849
	Off-Road	3.26E-03	3.26E-03		3.00E-03	3.00E-03
	Total	3.26E-03	0.1577	0.0849	3.00E-03	0.0879
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	2.4000e-	7.00E-05	0	7.00E-05
	Worker		4.00E+00			
	Total	3.00E-05	3.67E-03	9.70E-04	3.00E-05	1.00E-03
TOTAL		0.0000	0.0039	0.0010	0.0000	0.0011

P3 Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2026					
	Fugitive Dust	0	0.1113	0.0461	0	0.0461
	Off-Road	5.09E-03	5.09E-03		4.68E-03	4.68E-03
	Total	5.09E-03	0.1164	0.0461	4.68E-03	0.0508
Offsite						
	Hauling	2.00E-05	1.15E-03	3.10E-04	2.00E-05	3.30E-04
	Vendor	0	3.60E-04	1.00E-04	0	1.10E-04
	Worker	5.00E-05	6.11E-03	1.62E-03	4.00E-05	1.66E-03
	Total	7.00E-05	7.62E-03	2.03E-03	6.00E-05	2.10E-03
TOTAL		0.0052	0.1240	0.0481	0.0047	0.0529

P3 Building Construction

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2026					
	Off-Road	5.75E-03	5.75E-03		5.51E-03	5.51E-03
	Total	5.75E-03	5.75E-03		5.51E-03	5.51E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.70E-04	0.0208	5.99E-03	2.60E-04	6.25E-03
	Worker	6.10E-04	0.0782	0.0207	5.60E-04	0.0213
	Total	8.80E-04	0.099	0.0267	8.20E-04	0.0275
TOTAL		0.0066	0.1048	0.0267	0.0063	0.0330

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2027					
	Off-Road	0.0149	0.0149		0.0143	0.0143
	Total	0.0149	0.0149		0.0143	0.0143
Offsite						
	Hauling	0	0	0	0	0
	Vendor	6.90E-04	0.0538	0.0155	6.60E-04	0.0162
	Worker	1.49E-03	0.2019	0.0536	1.37E-03	0.0549
	Total	2.18E-03	0.2557	0.0691	2.03E-03	0.0711
TOTAL		0.0171	0.2706	0.0691	0.0163	0.0854

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2028					
	Off-Road	0.0148	0.0148		0.0142	0.0142
	Total	0.0148	0.0148		0.0142	0.0142
Offsite						
	Hauling	0	0	0	0	0
	Vendor	6.80E-04	0.0536	0.0154	6.50E-04	0.0161
	Worker	1.37E-03	0.201	0.0534	1.26E-03	0.0546
	Total	2.05E-03	0.2546	0.0688	1.91E-03	0.0707
TOTAL		0.0169	0.2694	0.0688	0.0161	0.0849

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2029					
	Off-Road	0.0149	0.0149		0.0143	0.0143
	Total	0.0149	0.0149		0.0143	0.0143
Offsite						
	Hauling	0	0	0	0	0
	Vendor	6.70E-04	0.0538	0.0155	6.40E-04	0.0161
	Worker	1.28E-03	0.2017	0.0536	1.18E-03	0.0548
	Total	1.95E-03	0.2555	0.0691	1.82E-03	0.0709
TOTAL		0.0169	0.2704	0.0691	0.0161	0.0852

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2030					
	Off-Road	3.10E-04	3.10E-04		3.10E-04	3.10E-04
	Total	3.10E-04	3.10E-04		3.10E-04	3.10E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.00E-05	3.50E-03	1.01E-03	4.00E-05	1.05E-03
	Worker	8.00E-05	0.0131	3.49E-03	7.00E-05	3.56E-03
	Total	1.20E-04	0.0166	4.50E-03	1.10E-04	4.61E-03
TOTAL		0.0004	0.0169	0.0045	0.0004	0.0049

P3 Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2027					
	Archit. Coating	0	0		0	0
	Off-Road	3.90E-04	3.90E-04		3.90E-04	3.90E-04
	Total	3.90E-04	3.90E-04		3.90E-04	3.90E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.10E-04	0.0154	4.09E-03	1.00E-04	4.20E-03
	Total	1.10E-04	0.0154	4.09E-03	1.00E-04	4.20E-03
TOTAL		0.0005	0.0158	0.0041	0.0005	0.0046

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2028					
	Archit. Coating	0	0		0	0
	Off-Road	1.00E-03	1.00E-03		1.00E-03	1.00E-03
	Total	1.00E-03	1.00E-03		1.00E-03	1.00E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	2.70E-04	0.0397	0.0105	2.50E-04	0.0108
	Total	2.70E-04	0.0397	0.0105	2.50E-04	0.0108
TOTAL		0.0013	0.0407	0.0105	0.0013	0.0118

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2029					
	Archit. Coating	0	0		0	0
	Off-Road	1.01E-03	1.01E-03		1.01E-03	1.01E-03
	Total	1.01E-03	1.01E-03		1.01E-03	1.01E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	2.50E-04	0.0398	0.0106	2.30E-04	0.0108
	Total	2.50E-04	0.0398	0.0106	2.30E-04	0.0108
TOTAL		0.0013	0.0408	0.0106	0.0012	0.0118

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2030					
	Archit. Coating	0	0		0	0
	Off-Road	3.90E-04	3.90E-04		3.90E-04	3.90E-04
	Total	3.90E-04	3.90E-04		3.90E-04	3.90E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	2.30E-04	0.0393	0.0105	2.10E-04	0.0107
	Total	2.30E-04	0.0393	0.0105	2.10E-04	0.0107
TOTAL		0.0006	0.0397	0.0105	0.0006	0.0111

P3 Paving

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2030					
	Off-Road	1.49E-03	1.49E-03		1.49E-03	1.49E-03
	Paving	0	0		0	0
	Total	1.49E-03	1.49E-03		1.49E-03	1.49E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	3.00E-05	4.57E-03	1.22E-03	2.00E-05	1.24E-03
	Total	3.00E-05	4.57E-03	1.22E-03	2.00E-05	1.24E-03
TOTAL		0.0015	0.0061	0.0012	0.0015	0.0027

P4 Demolition

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2031					
	Fugitive Dust	0	0.028	4.24E-03	0	4.24E-03
	Off-Road	1.58E-03	1.58E-03		1.58E-03	1.58E-03
	Total	1.58E-03	0.0296	4.24E-03	1.58E-03	5.82E-03
Offsite						
	Hauling	8.00E-05	4.93E-03	1.34E-03	8.00E-05	1.42E-03
	Vendor	0	3.60E-04	1.00E-04	0	1.10E-04
	Worker	3.00E-05	4.57E-03	1.22E-03	2.00E-05	1.24E-03
	Total	1.10E-04	9.86E-03	2.66E-03	1.00E-04	2.77E-03
TOTAL		0.0017	0.0395	0.0069	0.0017	0.0086

P4 Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2031					
	Fugitive Dust	0	0.1545	0.0849	0	0.0849
	Off-Road	1.31E-03	1.31E-03		1.31E-03	1.31E-03
	Total	1.31E-03	0.1558	0.0849	1.31E-03	0.0862
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	2.40E-04	7.00E-05	0	7.00E-05
	Worker	2.00E-05	3.66E-03	9.70E-04	2.00E-05	9.90E-04
	Total	2.00E-05	3.90E-03	1.04E-03	2.00E-05	1.06E-03
TOTAL		0.0013	0.1597	0.0859	0.0013	0.0873

P4 Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2031					
	Fugitive Dust	0	0.1113	0.0461	0	0.0461
	Off-Road	2.20E-03	2.20E-03		2.20E-03	2.20E-03
	Total	2.20E-03	0.1135	0.0461	2.20E-03	0.0483
Offsite						
	Hauling	1.00E-05	9.20E-04	2.50E-04	1.00E-05	2.60E-04
	Vendor	0	3.60E-04	1.00E-04	0	1.10E-04
	Worker	3.00E-05	6.10E-03	1.62E-03	3.00E-05	1.65E-03
	Total	4.00E-05	7.38E-03	1.97E-03	4.00E-05	2.02E-03
TOTAL		0.0022	0.1209	0.0481	0.0022	0.0503

P4 Building Construction

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2031					
	Off-Road	1.83E-03	1.83E-03		1.83E-03	1.83E-03
	Total	1.83E-03	1.83E-03		1.83E-03	1.83E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.90E-04	0.0157	4.52E-03	1.80E-04	4.70E-03
	Worker	3.10E-04	0.0554	0.0147	2.80E-04	0.015
	Total	5.00E-04	0.0711	0.0193	4.60E-04	0.0197
TOTAL		0.0023	0.0729	0.0193	0.0023	0.0215

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2032					
	Off-Road	4.74E-03	4.74E-03		4.74E-03	4.74E-03
	Total	4.74E-03	4.74E-03		4.74E-03	4.74E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.80E-04	0.0407	0.0117	4.60E-04	0.0122
	Worker	7.50E-04	0.1437	0.0382	6.90E-04	0.0389
	Total	1.23E-03	0.1844	0.0499	1.15E-03	0.0511
TOTAL		0.0060	0.1891	0.0499	0.0059	0.0558

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2033					
	Off-Road	4.70E-03	4.70E-03		4.70E-03	4.70E-03
	Total	4.70E-03	4.70E-03		4.70E-03	4.70E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.70E-04	0.0404	0.0116	4.50E-04	0.0121
	Worker	6.90E-04	0.1425	0.0379	6.40E-04	0.0386
	Total	1.16E-03	0.1829	0.0496	1.09E-03	0.0506
TOTAL		0.0059	0.1876	0.0496	0.0058	0.0553

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2034					
	Off-Road	4.70E-03	4.70E-03		4.70E-03	4.70E-03
	Total	4.70E-03	4.70E-03		4.70E-03	4.70E-03
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.60E-04	0.0403	0.0116	4.40E-04	0.0121
	Worker	6.50E-04	0.1425	0.0379	5.90E-04	0.0385
	Total	1.11E-03	0.1828	0.0496	1.03E-03	0.0506
TOTAL		0.0058	0.1875	0.0496	0.0057	0.0553

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2035					
	Off-Road	1.70E-04	1.70E-04		1.70E-04	1.70E-04
	Total	1.70E-04	1.70E-04		1.70E-04	1.70E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	3.00E-05	2.64E-03	7.60E-04	3.00E-05	7.90E-04
	Worker	4.00E-05	9.31E-03	2.48E-03	4.00E-05	2.52E-03
	Total	7.00E-05	0.012	3.24E-03	7.00E-05	3.31E-03
TOTAL		0.0002	0.0122	0.0032	0.0002	0.0035

P4 Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2032					
	Archit. Coating	0	0		0	0
	Off-Road	1.50E-04	1.50E-04		1.50E-04	1.50E-04
	Total	1.50E-04	1.50E-04		1.50E-04	1.50E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	6.00E-05	0.0113	3.00E-03	5.00E-05	3.05E-03
	Total	6.00E-05	0.0113	3.00E-03	5.00E-05	3.05E-03
TOTAL		0.0002	0.0115	0.0030	0.0002	0.0032

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2033					
	Archit. Coating	0	0		0	0
	Off-Road	4.00E-04	4.00E-04		4.00E-04	4.00E-04
	Total	4.00E-04	4.00E-04		4.00E-04	4.00E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.40E-04	0.029	7.72E-03	1.30E-04	7.85E-03
	Total	1.40E-04	0.029	7.72E-03	1.30E-04	7.85E-03
TOTAL		4.0000				

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2034					
	Archit. Coating	0	0		0	0
	Off-Road	4.00E-04	4.00E-04		4.00E-04	4.00E-04
	Total	4.00E-04	4.00E-04		4.00E-04	4.00E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.30E-04	0.029	7.72E-03	1.20E-04	7.84E-03
	Total	1.30E-04	0.029	7.72E-03	1.20E-04	7.84E-03
TOTAL		0.0005	0.0294	0.0077	0.0005	0.0082

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2035					
	Archit. Coating	0	0		0	0
	Off-Road	1.90E-04	1.90E-04		1.90E-04	1.90E-04
	Total	1.90E-04	1.90E-04		1.90E-04	1.90E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.20E-04	0.0289	7.69E-03	1.10E-04	7.81E-03
	Total	1.20E-04	0.0289	7.69E-03	1.10E-04	7.81E-03
TOTAL		0.0003	0.0291	0.0077	0.0003	0.0080

P4 Paving

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	2035					
	Off-Road	8.20E-04	8.20E-04		8.20E-04	8.20E-04
	Paving	0	0		0	0
	Total	8.20E-04	8.20E-04		8.20E-04	8.20E-04
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	2.00E-05	4.41E-03	1.17E-03	2.00E-05	1.19E-03
	Total	2.00E-05	4.41E-03	1.17E-03	2.00E-05	1.19E-03
TOTAL		0.0008	0.0052	0.0012	0.0008	0.0020

CalEEMod Output: Construction – Phase 1

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Phase 1 Construction - Los Angeles-South Coast County, Annual

Phase 1 Construction
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	280.00	1000sqft	1.86	280,000.00	0
Medical Office Building	60.00	1000sqft	0.78	60,000.00	0
Research & Development	180.00	1000sqft	1.46	180,000.00	0
Enclosed Parking with Elevator	1,750.00	Space	3.05	700,000.00	0
Parking Lot	6.43	Acre	6.43	279,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2020
Utility Company	Austin Energy				
CO2 Intensity (lb/MWhr)	1083.07	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes 1 water truck and 2 trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	630.00
tblConstructionPhase	NumDays	300.00	650.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	8/18/2023	12/24/2021
tblConstructionPhase	PhaseEndDate	3/26/2018	3/23/2018
tblConstructionPhase	PhaseEndDate	5/7/2018	5/4/2018
tblConstructionPhase	PhaseStartDate	3/20/2021	7/28/2019
tblConstructionPhase	PhaseStartDate	5/8/2018	5/7/2018
tblConstructionPhase	PhaseStartDate	3/27/2018	3/26/2018
tblFleetMix	FleetMixLandUseSubType	Hospital	Enclosed Parking with Elevator
tblFleetMix	FleetMixLandUseSubType	Medical Office Building	Hospital
tblFleetMix	FleetMixLandUseSubType	Research & Development	Medical Office Building
tblFleetMix	FleetMixLandUseSubType	Enclosed Parking with Elevator	Parking Lot
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Research & Development
tblGrading	MaterialExported	0.00	25,042.00
tblLandUse	BuildingSpaceSquareFeet	280,090.80	279,900.00
tblLandUse	LandUseSquareFeet	280,090.80	279,900.00

tblLandUse	LotAcreage	6.43	1.86
tblLandUse	LotAcreage	1.38	0.78
tblLandUse	LotAcreage	4.13	1.46
tblLandUse	LotAcreage	15.75	3.05
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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					
2018	0.7508	7.4973	5.3583	0.0143	1.1043	0.2768	1.3811	0.4015	0.2575	0.6590	0.0000	1,326.2600	1,326.2600	0.1790	0.0000	1,330.7346
2019	1.3220	6.9875	7.0994	0.0215	1.0999	0.2073	1.3072	0.2968	0.1956	0.4924	0.0000	1,986.8543	1,986.8543	0.1592	0.0000	1,990.8345
2020	1.9050	6.5645	7.1347	0.0225	1.1992	0.1856	1.3848	0.3232	0.1755	0.4987	0.0000	2,065.9856	2,065.9856	0.1567	0.0000	2,069.9042
2021	1.2027	0.8537	1.4587	3.7200e-003	0.2291	0.0355	0.2645	0.0611	0.0338	0.0949	0.0000	335.2988	335.2988	0.0284	0.0000	336.0087
Maximum	1.9050	7.4973	7.1347	0.0225	1.1992	0.2768	1.3848	0.4015	0.2575	0.6590	0.0000	2,065.9856	2,065.9856	0.1790	0.0000	2,069.9042

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					
2018	0.7508	7.4973	5.3583	0.0143	0.7143	0.2768	0.9911	0.2380	0.2575	0.4955	0.0000	1,326.2594	1,326.2594	0.1790	0.0000	1,330.7341
2019	1.3220	6.9875	7.0994	0.0215	1.0170	0.2073	1.2243	0.2765	0.1956	0.4720	0.0000	1,986.8539	1,986.8539	0.1592	0.0000	1,990.8341
2020	1.9050	6.5645	7.1347	0.0225	1.1086	0.1856	1.2942	0.3009	0.1755	0.4764	0.0000	2,065.9852	2,065.9852	0.1567	0.0000	2,069.9038
2021	1.2027	0.8537	1.4587	3.7200e-003	0.2114	0.0355	0.2468	0.0568	0.0338	0.0905	0.0000	335.2987	335.2987	0.0284	0.0000	336.0086
Maximum	1.9050	7.4973	7.1347	0.0225	1.1086	0.2768	1.2942	0.3009	0.2575	0.4955	0.0000	2,065.9852	2,065.9852	0.1790	0.0000	2,069.9038

	ROG	NOx	CO	SO2	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	16.00	0.00	13.40	19.44	0.00	12.06	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	1.4870	1.4870
2	4-1-2018	6-30-2018	2.2651	2.2651
3	7-1-2018	9-30-2018	2.2563	2.2563
4	10-1-2018	12-31-2018	2.0920	2.0920
5	1-1-2019	3-31-2019	1.8824	1.8824
6	4-1-2019	6-30-2019	1.8831	1.8831
7	7-1-2019	9-30-2019	2.1636	2.1636
8	10-1-2019	12-31-2019	2.2955	2.2955
9	1-1-2020	3-31-2020	2.0948	2.0948
10	4-1-2020	6-30-2020	2.0743	2.0743

11	7-1-2020	9-30-2020	2.0971	2.0971
12	10-1-2020	12-31-2020	2.1178	2.1178
13	1-1-2021	3-31-2021	1.0220	1.0220
14	4-1-2021	6-30-2021	0.3467	0.3467
15	7-1-2021	9-30-2021	0.3505	0.3505
		Highest	2.2955	2.2955

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	3/23/2018	5	60	
2	Site Preparation	Site Preparation	3/26/2018	5/4/2018	5	30	
3	Grading	Grading	5/7/2018	7/27/2018	5	60	
4	Building Construction	Building Construction	7/28/2018	1/22/2021	5	650	
5	Architectural Coating	Architectural Coating	7/28/2019	12/24/2021	5	630	
6	Paving	Paving	1/23/2021	3/19/2021	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 9.48

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 780,000; Non-Residential Outdoor: 260,000; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	786.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	3,130.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	578.00	246.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	116.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0851	0.0000	0.0851	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1116	1.1497	0.6691	1.1600e-003		0.0582	0.0582		0.0541	0.0541	0.0000	105.3722	105.3722	0.0290	0.0000	106.0980
Total	0.1116	1.1497	0.6691	1.1600e-003	0.0851	0.0582	0.1433	0.0129	0.0541	0.0670	0.0000	105.3722	105.3722	0.0290	0.0000	106.0980

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9400e-003	0.1313	0.0271	3.2000e-004	6.7500e-003	4.9000e-004	7.2400e-003	1.8500e-003	4.7000e-004	2.3200e-003	0.0000	30.9983	30.9983	2.1900e-003	0.0000	31.0530
Vendor	2.8000e-004	7.5100e-003	2.1100e-003	2.0000e-005	3.8000e-004	5.0000e-005	4.3000e-004	1.1000e-004	5.0000e-005	1.6000e-004	0.0000	1.5160	1.5160	1.0000e-004	0.0000	1.5186
Worker	2.4900e-003	2.1300e-003	0.0229	5.0000e-005	4.9300e-003	4.0000e-005	4.9800e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.8996	4.8996	1.8000e-004	0.0000	4.9042
Total	6.7100e-003	0.1409	0.0521	3.9000e-004	0.0121	5.8000e-004	0.0127	3.2700e-003	5.6000e-004	3.8300e-003	0.0000	37.4139	37.4139	2.4700e-003	0.0000	37.4758

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0364	0.0000	0.0364	5.5100e-003	0.0000	5.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1116	1.1497	0.6691	1.1600e-003		0.0582	0.0582		0.0541	0.0541	0.0000	105.3721	105.3721	0.0290	0.0000	106.0979
Total	0.1116	1.1497	0.6691	1.1600e-003	0.0364	0.0582	0.0945	5.5100e-003	0.0541	0.0597	0.0000	105.3721	105.3721	0.0290	0.0000	106.0979

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9400e-003	0.1313	0.0271	3.2000e-004	6.3000e-003	4.9000e-004	6.7800e-003	1.7400e-003	4.7000e-004	2.2100e-003	0.0000	30.9983	30.9983	2.1900e-003	0.0000	31.0530
Vendor	2.8000e-004	7.5100e-003	2.1100e-003	2.0000e-005	3.5000e-004	5.0000e-005	4.1000e-004	1.0000e-004	5.0000e-005	1.5000e-004	0.0000	1.5160	1.5160	1.0000e-004	0.0000	1.5186
Worker	2.4900e-003	2.1300e-003	0.0229	5.0000e-005	4.5500e-003	4.0000e-005	4.5900e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.8996	4.8996	1.8000e-004	0.0000	4.9042
Total	6.7100e-003	0.1409	0.0521	3.9000e-004	0.0112	5.8000e-004	0.0118	3.0600e-003	5.6000e-004	3.6200e-003	0.0000	37.4139	37.4139	2.4700e-003	0.0000	37.4758

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0684	0.7230	0.3371	5.7000e-004		0.0387	0.0387		0.0356	0.0356	0.0000	52.1399	52.1399	0.0162	0.0000	52.5457
Total	0.0684	0.7230	0.3371	5.7000e-004	0.2710	0.0387	0.3096	0.1490	0.0356	0.1845	0.0000	52.1399	52.1399	0.0162	0.0000	52.5457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	3.7600e-003	1.0600e-003	1.0000e-005	1.9000e-004	3.0000e-005	2.2000e-004	5.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7580	0.7580	5.0000e-005	0.0000	0.7593
Worker	1.5000e-003	1.2800e-003	0.0138	3.0000e-005	2.9600e-003	3.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.9398	2.9398	1.1000e-004	0.0000	2.9425
Total	1.6400e-003	5.0400e-003	0.0148	4.0000e-005	3.1500e-003	6.0000e-005	3.2100e-003	8.4000e-004	4.0000e-005	8.9000e-004	0.0000	3.6978	3.6978	1.6000e-004	0.0000	3.7018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1159	0.0000	0.1159	0.0637	0.0000	0.0637	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0684	0.7230	0.3371	5.7000e-004		0.0387	0.0387		0.0356	0.0356	0.0000	52.1398	52.1398	0.0162	0.0000	52.5456
Total	0.0684	0.7230	0.3371	5.7000e-004	0.1159	0.0387	0.1545	0.0637	0.0356	0.0992	0.0000	52.1398	52.1398	0.0162	0.0000	52.5456

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	3.7600e-003	1.0600e-003	1.0000e-005	1.8000e-004	3.0000e-005	2.0000e-004	5.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7580	0.7580	5.0000e-005	0.0000	0.7593
Worker	1.5000e-003	1.2800e-003	0.0138	3.0000e-005	2.7300e-003	3.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.9398	2.9398	1.1000e-004	0.0000	2.9425
Total	1.6400e-003	5.0400e-003	0.0148	4.0000e-005	2.9100e-003	6.0000e-005	2.9500e-003	7.8000e-004	4.0000e-005	8.3000e-004	0.0000	3.6978	3.6978	1.6000e-004	0.0000	3.7018

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2616	0.0000	0.2616	0.1081	0.0000	0.1081	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1527	1.7857	1.0527	1.8600e-003		0.0790	0.0790		0.0727	0.0727	0.0000	169.9455	169.9455	0.0529	0.0000	171.2682
Total	0.1527	1.7857	1.0527	1.8600e-003	0.2616	0.0790	0.3406	0.1081	0.0727	0.1808	0.0000	169.9455	169.9455	0.0529	0.0000	171.2682

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0157	0.5227	0.1078	1.2600e-003	0.0269	1.9400e-003	0.0288	7.3900e-003	1.8600e-003	9.2400e-003	0.0000	123.4412	123.4412	8.7100e-003	0.0000	123.6589
Vendor	2.8000e-004	7.5100e-003	2.1100e-003	2.0000e-005	3.8000e-004	5.0000e-005	4.3000e-004	1.1000e-004	5.0000e-005	1.6000e-004	0.0000	1.5160	1.5160	1.0000e-004	0.0000	1.5186
Worker	3.3200e-003	2.8400e-003	0.0306	7.0000e-005	6.5700e-003	6.0000e-005	6.6300e-003	1.7500e-003	6.0000e-005	1.8000e-003	0.0000	6.5328	6.5328	2.5000e-004	0.0000	6.5389
Total	0.0193	0.5330	0.1405	1.3500e-003	0.0338	2.0500e-003	0.0359	9.2500e-003	1.9700e-003	0.0112	0.0000	131.4900	131.4900	9.0600e-003	0.0000	131.7164

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1118	0.0000	0.1118	0.0462	0.0000	0.0462	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1527	1.7857	1.0527	1.8600e-003		0.0790	0.0790		0.0727	0.0727	0.0000	169.9453	169.9453	0.0529	0.0000	171.2680
Total	0.1527	1.7857	1.0527	1.8600e-003	0.1118	0.0790	0.1909	0.0462	0.0727	0.1189	0.0000	169.9453	169.9453	0.0529	0.0000	171.2680

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0157	0.5227	0.1078	1.2600e-003	0.0251	1.9400e-003	0.0270	6.9400e-003	1.8600e-003	8.7900e-003	0.0000	123.4412	123.4412	8.7100e-003	0.0000	123.6589
Vendor	2.8000e-004	7.5100e-003	2.1100e-003	2.0000e-005	3.5000e-004	5.0000e-005	4.1000e-004	1.0000e-004	5.0000e-005	1.5000e-004	0.0000	1.5160	1.5160	1.0000e-004	0.0000	1.5186
Worker	3.3200e-003	2.8400e-003	0.0306	7.0000e-005	6.0600e-003	6.0000e-005	6.1200e-003	1.6200e-003	6.0000e-005	1.6800e-003	0.0000	6.5328	6.5328	2.5000e-004	0.0000	6.5389
Total	0.0193	0.5330	0.1405	1.3500e-003	0.0315	2.0500e-003	0.0335	8.6600e-003	1.9700e-003	0.0106	0.0000	131.4900	131.4900	9.0600e-003	0.0000	131.7164

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1487	1.2982	0.9757	1.4900e-003		0.0832	0.0832		0.0783	0.0783	0.0000	131.9608	131.9608	0.0323	0.0000	132.7691
Total	0.1487	1.2982	0.9757	1.4900e-003		0.0832	0.0832		0.0783	0.0783	0.0000	131.9608	131.9608	0.0323	0.0000	132.7691

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0640	1.7098	0.4807	3.5700e-003	0.0860	0.0119	0.0979	0.0248	0.0114	0.0362	0.0000	344.9655	344.9655	0.0237	0.0000	345.5570
Worker	0.1778	0.1521	1.6355	3.8700e-003	0.3515	3.2000e-003	0.3547	0.0934	2.9500e-003	0.0963	0.0000	349.2745	349.2745	0.0131	0.0000	349.6028
Total	0.2417	1.8619	2.1162	7.4400e-003	0.4375	0.0151	0.4526	0.1182	0.0143	0.1325	0.0000	694.2400	694.2400	0.0368	0.0000	695.1598

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1487	1.2981	0.9757	1.4900e-003		0.0832	0.0832		0.0783	0.0783	0.0000	131.9607	131.9607	0.0323	0.0000	132.7689
Total	0.1487	1.2981	0.9757	1.4900e-003		0.0832	0.0832		0.0783	0.0783	0.0000	131.9607	131.9607	0.0323	0.0000	132.7689

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0640	1.7098	0.4807	3.5700e-003	0.0805	0.0119	0.0924	0.0235	0.0114	0.0348	0.0000	344.9655	344.9655	0.0237	0.0000	345.5570
Worker	0.1778	0.1521	1.6355	3.8700e-003	0.3241	3.2000e-003	0.3273	0.0866	2.9500e-003	0.0896	0.0000	349.2745	349.2745	0.0131	0.0000	349.6028
Total	0.2417	1.8619	2.1162	7.4400e-003	0.4046	0.0151	0.4197	0.1101	0.0143	0.1244	0.0000	694.2400	694.2400	0.0368	0.0000	695.1598

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1359	3.7920	1.0371	8.3000e-003	0.2022	0.0239	0.2261	0.0584	0.0228	0.0812	0.0000	802.7821	802.7821	0.0536	0.0000	804.1217
Worker	0.3778	0.3149	3.4244	8.8000e-003	0.8266	7.2700e-003	0.8338	0.2195	6.7000e-003	0.2262	0.0000	794.5369	794.5369	0.0273	0.0000	795.2199
Total	0.5137	4.1069	4.4615	0.0171	1.0288	0.0311	1.0599	0.2779	0.0295	0.3074	0.0000	1,597.3190	1,597.3190	0.0809	0.0000	1,599.3417

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1359	3.7920	1.0371	8.3000e-003	0.1893	0.0239	0.2132	0.0552	0.0228	0.0780	0.0000	802.7821	802.7821	0.0536	0.0000	804.1217
Worker	0.3778	0.3149	3.4244	8.8000e-003	0.7621	7.2700e-003	0.7693	0.2037	6.7000e-003	0.2104	0.0000	794.5369	794.5369	0.0273	0.0000	795.2199
Total	0.5137	4.1069	4.4615	0.0171	0.9514	0.0311	0.9825	0.2589	0.0295	0.2884	0.0000	1,597.3190	1,597.3190	0.0809	0.0000	1,599.3417

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1169	3.4922	0.9453	8.2700e-003	0.2030	0.0162	0.2192	0.0586	0.0155	0.0741	0.0000	800.5783	800.5783	0.0509	0.0000	801.8501
Worker	0.3495	0.2819	3.1168	8.5600e-003	0.8297	7.0700e-003	0.8368	0.2204	6.5200e-003	0.2269	0.0000	773.3462	773.3462	0.0244	0.0000	773.9555
Total	0.4664	3.7740	4.0621	0.0168	1.0327	0.0233	1.0560	0.2790	0.0221	0.3010	0.0000	1,573.9245	1,573.9245	0.0752	0.0000	1,575.8055

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1169	3.4922	0.9453	8.2700e-003	0.1901	0.0162	0.2063	0.0554	0.0155	0.0710	0.0000	800.5783	800.5783	0.0509	0.0000	801.8501
Worker	0.3495	0.2819	3.1168	8.5600e-003	0.7650	7.0700e-003	0.7721	0.2045	6.5200e-003	0.2110	0.0000	773.3462	773.3462	0.0244	0.0000	773.9555
Total	0.4664	3.7740	4.0621	0.0168	0.9551	0.0233	0.9784	0.2599	0.0221	0.2820	0.0000	1,573.9245	1,573.9245	0.0752	0.0000	1,575.8055

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0152	0.1395	0.1326	2.2000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	18.5310	18.5310	4.4700e-003	0.0000	18.6428
Total	0.0152	0.1395	0.1326	2.2000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	18.5310	18.5310	4.4700e-003	0.0000	18.6428

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.1942	0.0527	5.0000e-004	0.0124	4.0000e-004	0.0128	3.5800e-003	3.8000e-004	3.9600e-003	0.0000	48.5105	48.5105	2.9800e-003	0.0000	48.5849
Worker	0.0199	0.0155	0.1749	5.1000e-004	0.0507	4.2000e-004	0.0511	0.0135	3.8000e-004	0.0138	0.0000	45.7275	45.7275	1.3500e-003	0.0000	45.7612
Total	0.0260	0.2097	0.2275	1.0100e-003	0.0631	8.2000e-004	0.0639	0.0170	7.6000e-004	0.0178	0.0000	94.2381	94.2381	4.3300e-003	0.0000	94.3461

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1395	0.1326	2.2000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	18.5310	18.5310	4.4700e-003	0.0000	18.6427
Total	0.0152	0.1395	0.1326	2.2000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	18.5310	18.5310	4.4700e-003	0.0000	18.6427

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.1942	0.0527	5.0000e-004	0.0116	4.0000e-004	0.0120	3.3800e-003	3.8000e-004	3.7600e-003	0.0000	48.5105	48.5105	2.9800e-003	0.0000	48.5849
Worker	0.0199	0.0155	0.1749	5.1000e-004	0.0467	4.2000e-004	0.0471	0.0125	3.8000e-004	0.0129	0.0000	45.7275	45.7275	1.3500e-003	0.0000	45.7612
Total	0.0260	0.2097	0.2275	1.0100e-003	0.0583	8.2000e-004	0.0591	0.0159	7.6000e-004	0.0166	0.0000	94.2381	94.2381	4.3300e-003	0.0000	94.3461

3.6 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	0.4527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1028	0.1031	1.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	14.2982	14.2982	1.2100e-003	0.0000	14.3284
Total	0.4676	0.1028	0.1031	1.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	14.2982	14.2982	1.2100e-003	0.0000	14.3284

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0325	0.0271	0.2949	7.6000e-004	0.0712	6.3000e-004	0.0718	0.0189	5.8000e-004	0.0195	0.0000	68.4261	68.4261	2.3500e-003	0.0000	68.4849
Total	0.0325	0.0271	0.2949	7.6000e-004	0.0712	6.3000e-004	0.0718	0.0189	5.8000e-004	0.0195	0.0000	68.4261	68.4261	2.3500e-003	0.0000	68.4849

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1028	0.1031	1.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	14.2982	14.2982	1.2100e-003	0.0000	14.3284
Total	0.4676	0.1028	0.1031	1.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	14.2982	14.2982	1.2100e-003	0.0000	14.3284

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0325	0.0271	0.2949	7.6000e-004	0.0656	6.3000e-004	0.0663	0.0175	5.8000e-004	0.0181	0.0000	68.4261	68.4261	2.3500e-003	0.0000	68.4849
Total	0.0325	0.0271	0.2949	7.6000e-004	0.0656	6.3000e-004	0.0663	0.0175	5.8000e-004	0.0181	0.0000	68.4261	68.4261	2.3500e-003	0.0000	68.4849

3.6 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	1.0590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5124
Total	1.0907	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5124

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0702	0.0566	0.6255	1.7200e-003	0.1665	1.4200e-003	0.1679	0.0442	1.3100e-003	0.0455	0.0000	155.2044	155.2044	4.8900e-003	0.0000	155.3267
Total	0.0702	0.0566	0.6255	1.7200e-003	0.1665	1.4200e-003	0.1679	0.0442	1.3100e-003	0.0455	0.0000	155.2044	155.2044	4.8900e-003	0.0000	155.3267

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5123
Total	1.0907	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5123

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0702	0.0566	0.6255	1.7200e-003	0.1535	1.4200e-003	0.1550	0.0410	1.3100e-003	0.0424	0.0000	155.2044	155.2044	4.8900e-003	0.0000	155.3267
Total	0.0702	0.0566	0.6255	1.7200e-003	0.1535	1.4200e-003	0.1550	0.0410	1.3100e-003	0.0424	0.0000	155.2044	155.2044	4.8900e-003	0.0000	155.3267

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.1954	0.2327	3.8000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	32.6817	32.6817	2.2400e-003	0.0000	32.7377
Total	1.0628	0.1954	0.2327	3.8000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	32.6817	32.6817	2.2400e-003	0.0000	32.7377

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0639	0.0497	0.5615	1.6200e-003	0.1627	1.3400e-003	0.1641	0.0432	1.2400e-003	0.0445	0.0000	146.8344	146.8344	4.3200e-003	0.0000	146.9424
Total	0.0639	0.0497	0.5615	1.6200e-003	0.1627	1.3400e-003	0.1641	0.0432	1.2400e-003	0.0445	0.0000	146.8344	146.8344	4.3200e-003	0.0000	146.9424

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.1954	0.2327	3.8000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	32.6816	32.6816	2.2400e-003	0.0000	32.7377
Total	1.0628	0.1954	0.2327	3.8000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	32.6816	32.6816	2.2400e-003	0.0000	32.7377

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0639	0.0497	0.5615	1.6200e-003	0.1500	1.3400e-003	0.1514	0.0401	1.2400e-003	0.0413	0.0000	146.8344	146.8344	4.3200e-003	0.0000	146.9424
Total	0.0639	0.0497	0.5615	1.6200e-003	0.1500	1.3400e-003	0.1514	0.0401	1.2400e-003	0.0413	0.0000	146.8344	146.8344	4.3200e-003	0.0000	146.9424

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708
Paving	8.4200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0335	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707
Paving	8.4200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0335	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.0300e-003	3.0000e-005	3.0600e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.0300e-003	3.0000e-005	3.0600e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689

Phase 1 Construction - Los Angeles-South Coast County, Summary Report

**Phase 1 Construction
Los Angeles-South Coast, Summary Report**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	280.00	1000sqft	1.86	280,000.00	0
Medical Office Building	60.00	1000sqft	0.78	60,000.00	0
Research & Development	180.00	1000sqft	1.46	180,000.00	0
Enclosed Parking with Elevator	1,750.00	Space	3.05	700,000.00	0
Parking Lot	6.43	Acre	6.43	279,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2020
Utility Company	Austin Energy				
CO2 Intensity (lb/MW hr)	1083.07	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes 1 water truck and 2 trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
lb/day													
2018	Demolition	3.9536 W	42.9275 W	24.0604 W	0.0519 S	5.2045 W	2.3640 W	3.9536 W	42.9275 W	24.0604 W	0.0519 S	3.5509 W	2.1109 W
2018	Site Preparation	4.6824 W	48.5275 W	23.5155 S	0.0408 S	20.8607 W	12.3618 W	4.6824 W	48.5275 W	23.5155 S	0.0408 S	10.5012 W	6.6724 W
2018	Grading	5.7529 W	76.9438 W	39.8881 W	0.1074 S	12.5718 W	6.4057 W	5.7529 W	76.9438 W	39.8881 W	0.1074 S	7.4989 W	4.3229 W
2018	Building Construction	7.3932 W	56.2762 W	57.0401 S	0.1648 S	9.8088 W	3.8363 W	7.3932 W	56.2762 W	57.0401 S	0.1648 S	9.2023 W	3.6875 W
2019	Building Construction	6.6281 W	51.9365 W	52.5870 S	0.1616 S	9.5656 W	3.6074 W	6.6281 W	51.9365 W	52.5870 S	0.1616 S	8.9591 W	3.4585 W
2020	Building Construction	5.9882 W	47.4433 W	49.0121 S	0.1590 S	9.3317 W	3.3866 W	5.9882 W	47.4433 W	49.0121 S	0.1590 S	8.7253 W	3.2378 W
2021	Building Construction	5.4419 W	43.1519 W	46.0994 S	0.1563 S	9.0968 W	3.1644 W	5.4419 W	43.1519 W	46.0994 S	0.1563 S	8.4903 W	3.0156 W
2019	Architectural Coating	8.9928 W	2.3070 W	7.4344 S	0.0171 S	1.4366 S	0.4829 S	8.9928 W	2.3070 W	7.4344 S	0.0171 S	1.3351 S	0.4580 S
2020	Architectural Coating	8.9190 W	2.1043 W	6.9104 S	0.0167 S	1.4184 S	0.4648 S	8.9190 W	2.1043 W	6.9104 S	0.0167 S	1.3169 S	0.4399 S
2021	Architectural Coating	8.8560 W	1.9052 W	6.4897 S	0.0162 S	1.4012 S	0.4476 S	8.8560 W	1.9052 W	6.4897 S	0.0162 S	1.2997 S	0.4227 S
2021	Paving	1.7482 W	12.9680 W	15.2574 S	0.0245 S	0.8467 S	0.6692 S	1.7482 W	12.9680 W	15.2574 S	0.0245 S	0.8336 S	0.6660 S
	Peak Daily Total	8.9928 W	76.9438 W	57.0401 S	0.1648 S	20.8607 W	12.3618 W	8.9928 W	76.9438 W	57.0401 S	0.1648 S	10.5012 W	6.6724 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2018	1,326.2600	0.1790	0.0000	1,330.7347	1,326.2594	0.1790	0.0000	1,330.7341
Construction	2019	1,986.8543	0.1592	0.0000	1,990.8346	1,986.8539	0.1592	0.0000	1,990.8342
Construction	2020	2,065.9856	0.1567	0.0000	2,069.9042	2,065.9852	0.1567	0.0000	2,069.9038
Construction	2021	335.2988	0.0284	0.0000	336.0087	335.2987	0.0284	0.0000	336.0086
	Total								
	Significance Threshold								
	Exceed Significance?								

Phase 1 Construction Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	5	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00

Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	7.46600E-002	5.18800E-001	5.75680E-001	9.40000E-004	3.37900E-002	3.37900E-002	0.00000E+000	8.04275E+001	8.04275E+001	6.04000E-003	0.00000E+000	8.05785E+001
Concrete/Industrial Saws	1.55800E-002	1.17450E-001	1.11720E-001	1.90000E-004	8.01000E-003	8.01000E-003	0.00000E+000	1.61297E+001	1.61297E+001	1.25000E-003	0.00000E+000	1.61609E+001
Cranes	1.40130E-001	1.66911E+000	6.40660E-001	1.64000E-003	7.02700E-002	6.46500E-002	0.00000E+000	1.46404E+002	1.46404E+002	4.66200E-002	0.00000E+000	1.47570E+002
Excavators	4.33700E-002	4.64380E-001	4.91350E-001	7.70000E-004	2.25200E-002	2.07200E-002	0.00000E+000	7.07039E+001	7.07039E+001	2.20100E-002	0.00000E+000	7.12542E+001
Forklifts	1.51980E-001	1.35955E+000	1.16107E+000	1.49000E-003	1.04240E-001	9.59000E-002	0.00000E+000	1.32972E+002	1.32972E+002	4.23500E-002	0.00000E+000	1.34031E+002
Generator Sets	1.41130E-001	1.20233E+000	1.20874E+000	2.14000E-003	7.10600E-002	7.10600E-002	0.00000E+000	1.83692E+002	1.83692E+002	1.13400E-002	0.00000E+000	1.83976E+002
Graders	1.55900E-002	2.13830E-001	5.74400E-002	2.00000E-004	6.95000E-003	6.39000E-003	0.00000E+000	1.82327E+001	1.82327E+001	5.68000E-003	0.00000E+000	1.83746E+001
Pavers	9.85000E-003	1.03800E-001	1.16190E-001	1.90000E-004	5.02000E-003	4.62000E-003	0.00000E+000	1.65130E+001	1.65130E+001	5.34000E-003	0.00000E+000	1.66465E+001
Paving Equipment	7.68000E-003	7.76100E-002	1.01660E-001	1.60000E-004	3.83000E-003	3.53000E-003	0.00000E+000	1.43138E+001	1.43138E+001	4.63000E-003	0.00000E+000	1.44295E+001
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22022E+000	9.22022E+000	2.98000E-003	0.00000E+000	9.29477E+000
Rubber Tired Dozers	1.57420E-001	1.69559E+000	5.90820E-001	1.15000E-003	8.24300E-002	7.58300E-002	0.00000E+000	1.05345E+002	1.05345E+002	3.28000E-002	0.00000E+000	1.06165E+002
Scrapers	6.88200E-002	8.51490E-001	5.27200E-001	9.10000E-004	3.35600E-002	3.08700E-002	0.00000E+000	8.29965E+001	8.29965E+001	2.58400E-002	0.00000E+000	8.36424E+001
Tractors/Loaders/Backhoes	2.26430E-001	2.26310E+000	2.24104E+000	3.02000E-003	1.51080E-001	1.38990E-001	0.00000E+000	2.70521E+002	2.70521E+002	8.59100E-002	0.00000E+000	2.72669E+002
Welders	1.22020E-001	5.23230E-001	5.84240E-001	8.30000E-004	3.12800E-002	3.12800E-002	0.00000E+000	6.11717E+001	6.11717E+001	9.95000E-003	0.00000E+000	6.14205E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	7.46600E-002	5.18800E-001	5.75680E-001	9.40000E-004	3.37900E-002	3.37900E-002	0.00000E+000	8.04274E+001	8.04274E+001	6.04000E-003	0.00000E+000	8.05784E+001
Concrete/Industrial Saws	1.55800E-002	1.17450E-001	1.11720E-001	1.90000E-004	8.01000E-003	8.01000E-003	0.00000E+000	1.61297E+001	1.61297E+001	1.25000E-003	0.00000E+000	1.61609E+001
Cranes	1.40130E-001	1.66910E+000	6.40660E-001	1.64000E-003	7.02700E-002	6.46500E-002	0.00000E+000	1.46404E+002	1.46404E+002	4.66200E-002	0.00000E+000	1.47569E+002

Excavators	4.33700E-002	4.64380E-001	4.91350E-001	7.70000E-004	2.25200E-002	2.07200E-002	0.00000E+000	7.07039E+001	7.07039E+001	2.20100E-002	0.00000E+000	7.12541E+001
Forklifts	1.51980E-001	1.35955E+000	1.16107E+000	1.49000E-003	1.04240E-001	9.59000E-002	0.00000E+000	1.32972E+002	1.32972E+002	4.23500E-002	0.00000E+000	1.34030E+002
Generator Sets	1.41130E-001	1.20233E+000	1.20873E+000	2.14000E-003	7.10600E-002	7.10600E-002	0.00000E+000	1.83692E+002	1.83692E+002	1.13400E-002	0.00000E+000	1.83976E+002
Graders	1.55900E-002	2.13830E-001	5.74400E-002	2.00000E-004	6.95000E-003	6.39000E-003	0.00000E+000	1.82326E+001	1.82326E+001	5.68000E-003	0.00000E+000	1.83745E+001
Pavers	9.85000E-003	1.03800E-001	1.16190E-001	1.90000E-004	5.02000E-003	4.62000E-003	0.00000E+000	1.65130E+001	1.65130E+001	5.34000E-003	0.00000E+000	1.66465E+001
Paving Equipment	7.68000E-003	7.76100E-002	1.01660E-001	1.60000E-004	3.83000E-003	3.53000E-003	0.00000E+000	1.43138E+001	1.43138E+001	4.63000E-003	0.00000E+000	1.44295E+001
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22021E+000	9.22021E+000	2.98000E-003	0.00000E+000	9.29476E+000
Rubber Tired Dozers	1.57420E-001	1.69559E+000	5.90820E-001	1.15000E-003	8.24300E-002	7.58300E-002	0.00000E+000	1.05345E+002	1.05345E+002	3.28000E-002	0.00000E+000	1.06165E+002
Scrapers	6.88200E-002	8.51490E-001	5.27200E-001	9.10000E-004	3.35600E-002	3.08700E-002	0.00000E+000	8.29964E+001	8.29964E+001	2.58400E-002	0.00000E+000	8.36423E+001
Tractors/Loaders/Bac khoes	2.26430E-001	2.26310E+000	2.24104E+000	3.02000E-003	1.51080E-001	1.38990E-001	0.00000E+000	2.70521E+002	2.70521E+002	8.59100E-002	0.00000E+000	2.72669E+002
Welders	1.22020E-001	5.23230E-001	5.84240E-001	8.30000E-004	3.12800E-002	3.12800E-002	0.00000E+000	6.11716E+001	6.11716E+001	9.95000E-003	0.00000E+000	6.14204E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11902E-006	1.11902E-006	0.00000E+000	0.00000E+000	1.24103E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23755E-006
Cranes	0.00000E+000	5.99122E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22947E-006	1.22947E-006	0.00000E+000	0.00000E+000	1.21976E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13148E-006	1.13148E-006	0.00000E+000	0.00000E+000	1.12274E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20326E-006	1.20326E-006	0.00000E+000	0.00000E+000	1.19376E-006
Generator Sets	0.00000E+000	0.00000E+000	8.27308E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19765E-006	1.19765E-006	0.00000E+000	0.00000E+000	1.19581E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.09693E-006	1.09693E-006	0.00000E+000	0.00000E+000	1.08846E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21117E-006	1.21117E-006	0.00000E+000	0.00000E+000	1.20145E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39726E-006	1.39726E-006	0.00000E+000	0.00000E+000	1.38605E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08457E-006	1.08457E-006	0.00000E+000	0.00000E+000	1.07587E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23404E-006	1.23404E-006	0.00000E+000	0.00000E+000	1.13031E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20487E-006	1.20487E-006	0.00000E+000	0.00000E+000	1.19557E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18290E-006	1.18290E-006	0.00000E+000	0.00000E+000	1.17358E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14432E-006	1.14432E-006	0.00000E+000	0.00000E+000	1.13969E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.40	0.1	0.37	0.10	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	2.56	0.69	2.37	0.64	0.08	0.07
Demolition	Fugitive Dust	0.09	0.01	0.04	0.01	0.57	0.57
Demolition	Roads	0.01	0.00	0.01	0.00	0.07	0.06
Grading	Fugitive Dust	0.26	0.1	0.11	0.05	0.57	0.57
Grading	Roads	0.03	0.01	0.03	0.01	0.07	0.06
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Site Preparation	Fugitive Dust	0.27	0.15	0.12	0.06	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.08	0.07

CalEEMod Output: Construction – Phase 2

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Phase 2 Construction - Los Angeles-South Coast County, Annual

Phase 2 Construction
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	210.00	1000sqft	17.01	210,000.00	0
Research & Development	61.00	1000sqft	0.70	61,000.00	0
General Light Industry	20.00	1000sqft	0.93	20,000.00	0
Enclosed Parking with Elevator	1,250.00	Space	3.71	500,000.00	0
Parking Lot	3.97	Acre	3.97	172,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
--------------------------------	---	--------------------------------	---	--------------------------------	---

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Grading -

Demolition -

Trips and VMT - Assumes one water truck and two trips per day per truck.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	35.00	880.00
tblConstructionPhase	NumDays	440.00	900.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	45.00	60.00
tblConstructionPhase	NumDays	35.00	60.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	PhaseEndDate	12/31/2020	12/26/2025
tblConstructionPhase	PhaseEndDate	12/31/2020	1/23/2025
tblConstructionPhase	PhaseEndDate	12/31/2020	3/25/2021
tblConstructionPhase	PhaseEndDate	12/31/2020	8/12/2021
tblConstructionPhase	PhaseEndDate	12/31/2020	4/17/2025
tblConstructionPhase	PhaseEndDate	12/31/2020	5/20/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	8/13/2022
tblConstructionPhase	PhaseStartDate	1/1/2021	8/13/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	5/21/2021
tblConstructionPhase	PhaseStartDate	1/1/2021	1/24/2025
tblConstructionPhase	PhaseStartDate	1/1/2021	3/26/2021
tblGrading	MaterialExported	0.00	11,265.00
tblLandUse	BuildingSpaceSquareFeet	172,889.64	172,900.00
tblLandUse	LandUseSquareFeet	172,889.64	172,900.00

tblLandUse	LotAcreage	4.82	17.01
tblLandUse	LotAcreage	1.40	0.70
tblLandUse	LotAcreage	0.46	0.93
tblLandUse	LotAcreage	11.25	3.71
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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	0.5179	5.2249	3.9028	0.0104	1.0221	0.1999	1.2219	0.4023	0.1854	0.5877	0.0000	942.8569	942.8569	0.1560	0.0000	946.7560
2022	0.6694	4.1865	4.5825	0.0144	0.7095	0.1175	0.8270	0.1914	0.1108	0.3022	0.0000	1,320.9956	1,320.9956	0.1169	0.0000	1,323.9178
2023	0.9239	3.6560	4.7047	0.0149	0.7761	0.1069	0.8830	0.2091	0.1010	0.3102	0.0000	1,363.2193	1,363.2193	0.1141	0.0000	1,366.0725
2024	0.9033	3.5300	4.5852	0.0148	0.7821	0.0950	0.8771	0.2107	0.0898	0.3005	0.0000	1,354.8609	1,354.8609	0.1129	0.0000	1,357.6835
2025	0.5380	0.6359	1.2092	2.8900e-003	0.1560	0.0249	0.1809	0.0416	0.0235	0.0652	0.0000	259.5060	259.5060	0.0302	0.0000	260.2610
Maximum	0.9239	5.2249	4.7047	0.0149	1.0221	0.1999	1.2219	0.4023	0.1854	0.5877	0.0000	1,363.2193	1,363.2193	0.1560	0.0000	1,366.0725

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.5179	5.2249	3.9028	0.0104	0.5844	0.1999	0.7842	0.2124	0.1854	0.3978	0.0000	942.8563	942.8563	0.1560	0.0000	946.7554
2022	0.6694	4.1865	4.5825	0.0144	0.6560	0.1175	0.7735	0.1783	0.1108	0.2891	0.0000	1,320.9952	1,320.9952	0.1169	0.0000	1,323.9174
2023	0.9239	3.6560	4.7047	0.0149	0.7174	0.1069	0.8243	0.1947	0.1010	0.2958	0.0000	1,363.2189	1,363.2189	0.1141	0.0000	1,366.0721
2024	0.9033	3.5300	4.5852	0.0148	0.7230	0.0950	0.8180	0.1962	0.0898	0.2860	0.0000	1,354.8605	1,354.8605	0.1129	0.0000	1,357.6831
2025	0.5380	0.6359	1.2092	2.8900e-003	0.1440	0.0249	0.1689	0.0387	0.0235	0.0622	0.0000	259.5059	259.5059	0.0302	0.0000	260.2609
Maximum	0.9239	5.2249	4.7047	0.0149	0.7230	0.1999	0.8243	0.2124	0.1854	0.3978	0.0000	1,363.2189	1,363.2189	0.1560	0.0000	1,366.0721

	ROG	NOx	CO	SO2	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	18.02	0.00	15.57	22.27	0.00	15.01	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	1.2778	1.2778
2	4-1-2021	6-30-2021	1.6394	1.6394
3	7-1-2021	9-30-2021	1.5449	1.5449
4	10-1-2021	12-31-2021	1.2545	1.2545
5	1-1-2022	3-31-2022	1.1298	1.1298
6	4-1-2022	6-30-2022	1.1337	1.1337
7	7-1-2022	9-30-2022	1.2407	1.2407

8	10-1-2022	12-31-2022	1.3342	1.3342
9	1-1-2023	3-31-2023	1.1323	1.1323
10	4-1-2023	6-30-2023	1.1355	1.1355
11	7-1-2023	9-30-2023	1.1480	1.1480
12	10-1-2023	12-31-2023	1.1574	1.1574
13	1-1-2024	3-31-2024	1.0997	1.0997
14	4-1-2024	6-30-2024	1.0908	1.0908
15	7-1-2024	9-30-2024	1.1028	1.1028
16	10-1-2024	12-31-2024	1.1117	1.1117
17	1-1-2025	3-31-2025	0.6206	0.6206
18	4-1-2025	6-30-2025	0.2219	0.2219
19	7-1-2025	9-30-2025	0.1644	0.1644
		Highest	1.6394	1.6394

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	3/25/2021	5	60	
2	Site Preparation	Site Preparation	3/26/2021	5/20/2021	5	40	
3	Grading	Grading	5/21/2021	8/12/2021	5	60	
4	Building Construction	Building Construction	8/13/2021	1/23/2025	5	900	
5	Architectural Coating	Architectural Coating	8/13/2022	12/26/2025	5	880	
6	Paving	Paving	1/24/2025	4/17/2025	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 7.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 436,500; Non-Residential Outdoor: 145,500; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
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
Architectural Coating	1	76.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	378.00	158.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	2.00	958.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	1,408.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 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					0.1037	0.0000	0.1037	0.0157	0.0000	0.0157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0950	0.9432	0.6470	1.1600e-003		0.0465	0.0465		0.0432	0.0432	0.0000	102.0024	102.0024	0.0287	0.0000	102.7201
Total	0.0950	0.9432	0.6470	1.1600e-003	0.1037	0.0465	0.1502	0.0157	0.0432	0.0589	0.0000	102.0024	102.0024	0.0287	0.0000	102.7201

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0300e-003	0.1326	0.0309	3.7000e-004	8.2300e-003	4.0000e-004	8.6300e-003	2.2600e-003	3.8000e-004	2.6400e-003	0.0000	36.5140	36.5140	2.5300e-003	0.0000	36.5774
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	1.9400e-003	1.5100e-003	0.0170	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.4501	4.4501	1.3000e-004	0.0000	4.4534
Total	6.1600e-003	0.1400	0.0496	4.4000e-004	0.0135	4.5000e-004	0.0140	3.6800e-003	4.3000e-004	4.1100e-003	0.0000	42.4431	42.4431	2.7500e-003	0.0000	42.5120

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0443	0.0000	0.0443	6.7100e-003	0.0000	6.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0950	0.9432	0.6470	1.1600e-003		0.0465	0.0465		0.0432	0.0432	0.0000	102.0022	102.0022	0.0287	0.0000	102.7200
Total	0.0950	0.9432	0.6470	1.1600e-003	0.0443	0.0465	0.0909	6.7100e-003	0.0432	0.0499	0.0000	102.0022	102.0022	0.0287	0.0000	102.7200

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0300e-003	0.1326	0.0309	3.7000e-004	7.6800e-003	4.0000e-004	8.0700e-003	2.1200e-003	3.8000e-004	2.5000e-003	0.0000	36.5140	36.5140	2.5300e-003	0.0000	36.5774
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.5000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	1.9400e-003	1.5100e-003	0.0170	5.0000e-005	4.5500e-003	4.0000e-005	4.5900e-003	1.2200e-003	4.0000e-005	1.2500e-003	0.0000	4.4501	4.4501	1.3000e-004	0.0000	4.4534
Total	6.1600e-003	0.1400	0.0496	4.4000e-004	0.0126	4.5000e-004	0.0130	3.4400e-003	4.3000e-004	3.8600e-003	0.0000	42.4431	42.4431	2.7500e-003	0.0000	42.5120

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0778	0.8099	0.4231	7.6000e-004		0.0409	0.0409		0.0376	0.0376	0.0000	66.8714	66.8714	0.0216	0.0000	67.4121
Total	0.0778	0.8099	0.4231	7.6000e-004	0.3613	0.0409	0.4022	0.1986	0.0376	0.2362	0.0000	66.8714	66.8714	0.0216	0.0000	67.4121

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.9500e-003	1.0700e-003	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9860	0.9860	6.0000e-005	0.0000	0.9875
Worker	1.5500e-003	1.2100e-003	0.0136	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.5601	3.5601	1.0000e-004	0.0000	3.5627
Total	1.6700e-003	5.1600e-003	0.0147	5.0000e-005	4.1900e-003	4.0000e-005	4.2400e-003	1.1200e-003	4.0000e-005	1.1600e-003	0.0000	4.5461	4.5461	1.6000e-004	0.0000	4.5502

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					
Fugitive Dust					0.1545	0.0000	0.1545	0.0849	0.0000	0.0849	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0778	0.8099	0.4231	7.6000e-004		0.0409	0.0409		0.0376	0.0376	0.0000	66.8714	66.8714	0.0216	0.0000	67.4120
Total	0.0778	0.8099	0.4231	7.6000e-004	0.1545	0.0409	0.1954	0.0849	0.0376	0.1225	0.0000	66.8714	66.8714	0.0216	0.0000	67.4120

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
Vendor	1.2000e-004	3.9500e-003	1.0700e-003	1.0000e-005	2.4000e-004	1.0000e-005	2.4000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9860	0.9860	6.0000e-005	0.0000	0.9875
Worker	1.5500e-003	1.2100e-003	0.0136	4.0000e-005	3.6400e-003	3.0000e-005	3.6700e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	3.5601	3.5601	1.0000e-004	0.0000	3.5627
Total	1.6700e-003	5.1600e-003	0.0147	5.0000e-005	3.8800e-003	4.0000e-005	3.9100e-003	1.0400e-003	4.0000e-005	1.0800e-003	0.0000	4.5461	4.5461	1.6000e-004	0.0000	4.5502

3.4 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					0.2608	0.0000	0.2608	0.1080	0.0000	0.1080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1257	1.3920	0.9264	1.8600e-003		0.0596	0.0596		0.0548	0.0548	0.0000	163.4849	163.4849	0.0529	0.0000	164.8068
Total	0.1257	1.3920	0.9264	1.8600e-003	0.2608	0.0596	0.3204	0.1080	0.0548	0.1628	0.0000	163.4849	163.4849	0.0529	0.0000	164.8068

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.9300e-003	0.1949	0.0454	5.5000e-004	0.0121	5.8000e-004	0.0127	3.3200e-003	5.6000e-004	3.8800e-003	0.0000	53.6657	53.6657	3.7200e-003	0.0000	53.7588
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	2.5800e-003	2.0100e-003	0.0227	7.0000e-005	6.5700e-003	5.0000e-005	6.6300e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	5.9335	5.9335	1.7000e-004	0.0000	5.9379
Total	8.7000e-003	0.2028	0.0697	6.4000e-004	0.0191	6.4000e-004	0.0197	5.1800e-003	6.2000e-004	5.8000e-003	0.0000	61.0781	61.0781	3.9800e-003	0.0000	61.1779

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1115	0.0000	0.1115	0.0462	0.0000	0.0462	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1257	1.3920	0.9264	1.8600e-003		0.0596	0.0596		0.0548	0.0548	0.0000	163.4848	163.4848	0.0529	0.0000	164.8066
Total	0.1257	1.3920	0.9264	1.8600e-003	0.1115	0.0596	0.1711	0.0462	0.0548	0.1010	0.0000	163.4848	163.4848	0.0529	0.0000	164.8066

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.9300e-003	0.1949	0.0454	5.5000e-004	0.0113	5.8000e-004	0.0119	3.1200e-003	5.6000e-004	3.6800e-003	0.0000	53.6657	53.6657	3.7200e-003	0.0000	53.7588

Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.5000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	2.5800e-003	2.0100e-003	0.0227	7.0000e-005	6.0600e-003	5.0000e-005	6.1200e-003	1.6200e-003	5.0000e-005	1.6700e-003	0.0000	5.9335	5.9335	1.7000e-004	0.0000	5.9379
Total	8.7000e-003	0.2028	0.0697	6.4000e-004	0.0177	6.4000e-004	0.0184	4.8400e-003	6.2000e-004	5.4600e-003	0.0000	61.0781	61.0781	3.9800e-003	0.0000	61.1779

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9768	116.9768	0.0282	0.0000	117.6824
Total	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9768	116.9768	0.0282	0.0000	117.6824

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0248	0.7874	0.2135	2.0300e-003	0.0503	1.6100e-003	0.0519	0.0145	1.5400e-003	0.0160	0.0000	196.6796	196.6796	0.0121	0.0000	196.9812

Worker	0.0821	0.0639	0.7219	2.0900e-003	0.2092	1.7200e-003	0.2109	0.0556	1.5900e-003	0.0572	0.0000	188.7744	188.7744	5.5500e-003	0.0000	188.9133
Total	0.1069	0.8514	0.9354	4.1200e-003	0.2594	3.3300e-003	0.2628	0.0701	3.1300e-003	0.0732	0.0000	385.4540	385.4540	0.0176	0.0000	385.8945

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9767	116.9767	0.0282	0.0000	117.6822
Total	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9767	116.9767	0.0282	0.0000	117.6822

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0248	0.7874	0.2135	2.0300e-003	0.0471	1.6100e-003	0.0487	0.0137	1.5400e-003	0.0153	0.0000	196.6796	196.6796	0.0121	0.0000	196.9812
Worker	0.0821	0.0639	0.7219	2.0900e-003	0.1929	1.7200e-003	0.1946	0.0516	1.5900e-003	0.0531	0.0000	188.7744	188.7744	5.5500e-003	0.0000	188.9133

Total	0.1069	0.8514	0.9354	4.1200e-003	0.2399	3.3300e-003	0.2432	0.0653	3.1300e-003	0.0684	0.0000	385.4540	385.4540	0.0176	0.0000	385.8945
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3.5 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0599	1.9259	0.5200	5.1700e-003	0.1294	3.6100e-003	0.1330	0.0373	3.4600e-003	0.0408	0.0000	501.8570	501.8570	0.0300	0.0000	502.6064
Worker	0.1983	0.1487	1.7122	5.1900e-003	0.5385	4.3000e-003	0.5428	0.1430	3.9600e-003	0.1470	0.0000	468.8717	468.8717	0.0129	0.0000	469.1945
Total	0.2581	2.0745	2.2322	0.0104	0.6679	7.9100e-003	0.6758	0.1804	7.4200e-003	0.1878	0.0000	970.7286	970.7286	0.0429	0.0000	971.8008

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0599	1.9259	0.5200	5.1700e-003	0.1211	3.6100e-003	0.1248	0.0353	3.4600e-003	0.0388	0.0000	501.8570	501.8570	0.0300	0.0000	502.6064
Worker	0.1983	0.1487	1.7122	5.1900e-003	0.4965	4.3000e-003	0.5008	0.1327	3.9600e-003	0.1367	0.0000	468.8717	468.8717	0.0129	0.0000	469.1945
Total	0.2581	2.0745	2.2322	0.0104	0.6176	7.9100e-003	0.6255	0.1680	7.4200e-003	0.1755	0.0000	970.7286	970.7286	0.0429	0.0000	971.8008

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0445	1.4550	0.4665	5.0000e-003	0.1294	1.7000e-003	0.1311	0.0373	1.6200e-003	0.0390	0.0000	486.1457	486.1457	0.0265	0.0000	486.8080
Worker	0.1864	0.1345	1.5745	5.0000e-003	0.5385	4.1800e-003	0.5427	0.1430	3.8500e-003	0.1469	0.0000	451.7143	451.7143	0.0116	0.0000	452.0050
Total	0.2309	1.5895	2.0410	0.0100	0.6679	5.8800e-003	0.6737	0.1804	5.4700e-003	0.1858	0.0000	937.8600	937.8600	0.0381	0.0000	938.8130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0445	1.4550	0.4665	5.0000e-003	0.1212	1.7000e-003	0.1229	0.0353	1.6200e-003	0.0369	0.0000	486.1457	486.1457	0.0265	0.0000	486.8080
Worker	0.1864	0.1345	1.5745	5.0000e-003	0.4965	4.1800e-003	0.5007	0.1327	3.8500e-003	0.1366	0.0000	451.7143	451.7143	0.0116	0.0000	452.0050
Total	0.2309	1.5895	2.0410	0.0100	0.6176	5.8800e-003	0.6235	0.1680	5.4700e-003	0.1735	0.0000	937.8600	937.8600	0.0381	0.0000	938.8130

3.5 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
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Category	tons/yr										MT/yr					
	Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0437	1.4607	0.4557	5.0200e-003	0.1304	1.6900e-003	0.1321	0.0376	1.6100e-003	0.0392	0.0000	487.9337	487.9337	0.0263	0.0000	488.5912
Worker	0.1779	0.1236	1.4775	4.8800e-003	0.5426	4.1500e-003	0.5468	0.1441	3.8200e-003	0.1479	0.0000	441.0754	441.0754	0.0107	0.0000	441.3439
Total	0.2216	1.5843	1.9332	9.9000e-003	0.6730	5.8400e-003	0.6788	0.1818	5.4300e-003	0.1872	0.0000	929.0091	929.0091	0.0370	0.0000	929.9351

Mitigated Construction On-Site

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

Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0437	1.4607	0.4557	5.0200e-003	0.1221	1.6900e-003	0.1238	0.0356	1.6100e-003	0.0372	0.0000	487.9337	487.9337	0.0263	0.0000	488.5912
Worker	0.1779	0.1236	1.4775	4.8800e-003	0.5003	4.1500e-003	0.5044	0.1337	3.8200e-003	0.1376	0.0000	441.0754	441.0754	0.0107	0.0000	441.3439
Total	0.2216	1.5843	1.9332	9.9000e-003	0.6224	5.8400e-003	0.6282	0.1693	5.4300e-003	0.1748	0.0000	929.0091	929.0091	0.0370	0.0000	929.9351

3.5 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	0.0116	0.1060	0.1367	2.3000e-004		4.4800e-003	4.4800e-003		4.2200e-003	4.2200e-003	0.0000	19.7132	19.7132	4.6300e-003	0.0000	19.8290

Total	0.0116	0.1060	0.1367	2.3000e-004		4.4800e-003	4.4800e-003		4.2200e-003	4.2200e-003	0.0000	19.7132	19.7132	4.6300e-003	0.0000	19.8290
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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	2.7600e-003	0.0940	0.0288	3.2000e-004	8.4600e-003	1.1000e-004	8.5700e-003	2.4400e-003	1.0000e-004	2.5400e-003	0.0000	31.4873	31.4873	1.6800e-003	0.0000	31.5294
Worker	0.0110	7.3400e-003	0.0890	3.0000e-004	0.0352	2.6000e-004	0.0355	9.3500e-003	2.4000e-004	9.5900e-003	0.0000	27.5112	27.5112	6.4000e-004	0.0000	27.5271
Total	0.0137	0.1013	0.1178	6.2000e-004	0.0437	3.7000e-004	0.0440	0.0118	3.4000e-004	0.0121	0.0000	58.9985	58.9985	2.3200e-003	0.0000	59.0565

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0116	0.1060	0.1367	2.3000e-004		4.4800e-003	4.4800e-003		4.2200e-003	4.2200e-003	0.0000	19.7131	19.7131	4.6300e-003	0.0000	19.8290
Total	0.0116	0.1060	0.1367	2.3000e-004		4.4800e-003	4.4800e-003		4.2200e-003	4.2200e-003	0.0000	19.7131	19.7131	4.6300e-003	0.0000	19.8290

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7600e-003	0.0940	0.0288	3.2000e-004	7.9200e-003	1.1000e-004	8.0300e-003	2.3100e-003	1.0000e-004	2.4100e-003	0.0000	31.4873	31.4873	1.6800e-003	0.0000	31.5294
Worker	0.0110	7.3400e-003	0.0890	3.0000e-004	0.0325	2.6000e-004	0.0327	8.6800e-003	2.4000e-004	8.9200e-003	0.0000	27.5112	27.5112	6.4000e-004	0.0000	27.5271
Total	0.0137	0.1013	0.1178	6.2000e-004	0.0404	3.7000e-004	0.0408	0.0110	3.4000e-004	0.0113	0.0000	58.9985	58.9985	2.3200e-003	0.0000	59.0565

3.6 Architectural Coating - 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					
Archit. Coating	0.1639					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0704	0.0907	1.5000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7871
Total	0.1741	0.0704	0.0907	1.5000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7871

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0153	0.0115	0.1324	4.0000e-004	0.0416	3.3000e-004	0.0420	0.0111	3.1000e-004	0.0114	0.0000	36.2579	36.2579	1.0000e-003	0.0000	36.2829
Total	0.0153	0.0115	0.1324	4.0000e-004	0.0416	3.3000e-004	0.0420	0.0111	3.1000e-004	0.0114	0.0000	36.2579	36.2579	1.0000e-003	0.0000	36.2829

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1639					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0704	0.0907	1.5000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7870
Total	0.1741	0.0704	0.0907	1.5000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7870

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0153	0.0115	0.1324	4.0000e-004	0.0384	3.3000e-004	0.0387	0.0103	3.1000e-004	0.0106	0.0000	36.2579	36.2579	1.0000e-003	0.0000	36.2829
Total	0.0153	0.0115	0.1324	4.0000e-004	0.0384	3.3000e-004	0.0387	0.0103	3.1000e-004	0.0106	0.0000	36.2579	36.2579	1.0000e-003	0.0000	36.2829

3.6 Architectural Coating - 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					
Archit. Coating	0.4262					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	0.4511	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0375	0.0270	0.3166	1.0000e-003	0.1083	8.4000e-004	0.1091	0.0288	7.7000e-004	0.0295	0.0000	90.8209	90.8209	2.3400e-003	0.0000	90.8793
Total	0.0375	0.0270	0.3166	1.0000e-003	0.1083	8.4000e-004	0.1091	0.0288	7.7000e-004	0.0295	0.0000	90.8209	90.8209	2.3400e-003	0.0000	90.8793

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4262					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	0.4511	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	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	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	0.0375	0.0270	0.3166	1.0000e-003	0.0998	8.4000e-004	0.1007	0.0267	7.7000e-004	0.0275	0.0000	90.8209	90.8209	2.3400e-003	0.0000	90.8793
Total	0.0375	0.0270	0.3166	1.0000e-003	0.0998	8.4000e-004	0.1007	0.0267	7.7000e-004	0.0275	0.0000	90.8209	90.8209	2.3400e-003	0.0000	90.8793

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	0.4531	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0358	0.0249	0.2971	9.8000e-004	0.1091	8.3000e-004	0.1099	0.0290	7.7000e-004	0.0297	0.0000	88.6818	88.6818	2.1600e-003	0.0000	88.7358
Total	0.0358	0.0249	0.2971	9.8000e-004	0.1091	8.3000e-004	0.1099	0.0290	7.7000e-004	0.0297	0.0000	88.6818	88.6818	2.1600e-003	0.0000	88.7358

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	0.4531	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0358	0.0249	0.2971	9.8000e-004	0.1006	8.3000e-004	0.1014	0.0269	7.7000e-004	0.0277	0.0000	88.6818	88.6818	2.1600e-003	0.0000	88.7358
Total	0.0358	0.0249	0.2971	9.8000e-004	0.1006	8.3000e-004	0.1014	0.0269	7.7000e-004	0.0277	0.0000	88.6818	88.6818	2.1600e-003	0.0000	88.7358

3.6 Architectural Coating - 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					
Archit. Coating	0.4229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0220	0.1478	0.2334	3.8000e-004		6.6400e-003	6.6400e-003		6.6400e-003	6.6400e-003	0.0000	32.9370	32.9370	1.8000e-003	0.0000	32.9819
Total	0.4449	0.1478	0.2334	3.8000e-004		6.6400e-003	6.6400e-003		6.6400e-003	6.6400e-003	0.0000	32.9370	32.9370	1.8000e-003	0.0000	32.9819

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0335	0.0224	0.2715	9.3000e-004	0.1074	8.0000e-004	0.1082	0.0285	7.4000e-004	0.0293	0.0000	83.9465	83.9465	1.9400e-003	0.0000	83.9949
Total	0.0335	0.0224	0.2715	9.3000e-004	0.1074	8.0000e-004	0.1082	0.0285	7.4000e-004	0.0293	0.0000	83.9465	83.9465	1.9400e-003	0.0000	83.9949

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0220	0.1478	0.2334	3.8000e-004		6.6400e-003	6.6400e-003		6.6400e-003	6.6400e-003	0.0000	32.9369	32.9369	1.8000e-003	0.0000	32.9819
Total	0.4449	0.1478	0.2334	3.8000e-004		6.6400e-003	6.6400e-003		6.6400e-003	6.6400e-003	0.0000	32.9369	32.9369	1.8000e-003	0.0000	32.9819

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0335	0.0224	0.2715	9.3000e-004	0.0991	8.0000e-004	0.0999	0.0265	7.4000e-004	0.0272	0.0000	83.9465	83.9465	1.9400e-003	0.0000	83.9949

Total	0.0335	0.0224	0.2715	9.3000e-004	0.0991	8.0000e-004	0.0999	0.0265	7.4000e-004	0.0272	0.0000	83.9465	83.9465	1.9400e-003	0.0000	83.9949
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3.7 Paving - 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	0.0275	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0578	60.0578	0.0194	0.0000	60.5434
Paving	5.2000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0327	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0578	60.0578	0.0194	0.0000	60.5434

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.0300e-003	0.0125	4.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.8531	3.8531	9.0000e-005	0.0000	3.8553
Total	1.5400e-003	1.0300e-003	0.0125	4.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.8531	3.8531	9.0000e-005	0.0000	3.8553

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0275	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0577	60.0577	0.0194	0.0000	60.5433
Paving	5.2000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0327	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0577	60.0577	0.0194	0.0000	60.5433

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.0300e-003	0.0125	4.0000e-005	4.5500e-003	4.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.8531	3.8531	9.0000e-005	0.0000	3.8553
Total	1.5400e-003	1.0300e-003	0.0125	4.0000e-005	4.5500e-003	4.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.8531	3.8531	9.0000e-005	0.0000	3.8553

Phase 2 Construction - Los Angeles-South Coast County, Summary Report

**Phase 2 Construction
Los Angeles-South Coast, Summary Report**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	210.00	1000sqft	17.01	210,000.00	0
Research & Development	61.00	1000sqft	0.70	61,000.00	0
General Light Industry	20.00	1000sqft	0.93	20,000.00	0
Enclosed Parking with Elevator	1,250.00	Space	3.71	500,000.00	0
Parking Lot	3.97	Acre	3.97	172,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Grading -

Demolition -

Trips and VMT - Assumes one water truck and two trips per day per truck.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
lb/day													
2021	Demolition	3.3793 W	36.0188 W	23.2384 W	0.0535 S	5.4817 W	2.1034 W	3.3793 W	36.0188 W	23.2384 W	0.0535 S	3.4704 W	1.7958 W
2021	Site Preparation	3.9804 W	40.7496 W	21.9300 S	0.0406 S	20.3268 W	11.8705 W	3.9804 W	40.7496 W	21.9300 S	0.0406 S	9.9673 W	6.1811 W
2021	Grading	4.4933 W	53.0307 W	33.2362 W	0.0831 S	11.3484 W	5.6225 W	4.4933 W	53.0307 W	33.2362 W	0.0831 S	6.3245 W	3.5503 W
2021	Building Construction	4.2075 W	33.9734 W	35.8104 S	0.1108 S	6.2618 W	2.3755 W	4.2075 W	33.9734 W	35.8104 S	0.1108 S	5.8664 W	2.2784 W
2022	Building Construction	3.8724 W	31.2775 W	34.2044 S	0.1089 S	6.1071 W	2.2305 W	3.8724 W	31.2775 W	34.2044 S	0.1089 S	5.7117 W	2.1334 W
2023	Building Construction	3.5192 W	26.4106 W	32.6064 S	0.1060 S	5.9820 W	2.1127 W	3.5192 W	26.4106 W	32.6064 S	0.1060 S	5.5866 W	2.0156 W
2024	Building Construction	3.3279 W	25.3410 W	31.5482 S	0.1046 S	5.8950 W	2.0305 W	3.3279 W	25.3410 W	31.5482 S	0.1046 S	5.4995 W	1.9334 W
2025	Building Construction	3.1432 W	24.1957 W	30.5218 S	0.1028 S	5.8083 W	1.9490 W	3.1432 W	24.1957 W	30.5218 S	0.1028 S	5.4129 W	1.8519 W
2022	Architectural Coating	3.8230 W	1.6323 W	4.6378 S	0.0114 S	0.9379 S	0.3131 S	3.8230 W	1.6323 W	4.6378 S	0.0114 S	0.8714 S	0.2968 S
2023	Architectural Coating	3.7904 W	1.5055 W	4.4119 S	0.0110 S	0.9268 S	0.3021 S	3.7904 W	1.5055 W	4.4119 S	0.0110 S	0.8603 S	0.2858 S
2024	Architectural Coating	3.7631 W	1.4034 W	4.2347 S	0.0108 S	0.9168 S	0.2921 S	3.7631 W	1.4034 W	4.2347 S	0.0108 S	0.8503 S	0.2758 S
2025	Architectural Coating	3.7388 W	1.3144 W	4.0610 S	0.0105 S	0.9073 S	0.2825 S	3.7388 W	1.3144 W	4.0610 S	0.0105 S	0.8408 S	0.2662 S
2025	Paving	1.1457 W	8.6150 W	15.0224 S	0.0243 S	0.5874 S	0.4306 S	1.1457 W	8.6150 W	15.0224 S	0.0243 S	0.5743 S	0.4274 S
	Peak Daily Total	4.4933 W	53.0307 W	35.8104 S	0.1108 S	20.3268 W	11.8705 W	4.4933 W	53.0307 W	35.8104 S	0.1108 S	9.9673 W	6.1811 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2021	942.8569	0.1560	0.0000	946.7559	942.8563	0.1560	0.0000	946.7554
Construction	2022	1,320.9956	0.1169	0.0000	1,323.9179	1,320.9952	0.1169	0.0000	1,323.9175
Construction	2023	1,363.2193	0.1141	0.0000	1,366.0724	1,363.2189	0.1141	0.0000	1,366.0720
Construction	2024	1,354.8609	0.1129	0.0000	1,357.6836	1,354.8605	0.1129	0.0000	1,357.6832
Construction	2025	259.5060	0.0302	0.0000	260.2610	259.5059	0.0302	0.0000	260.2609
	Total								
	Significance Threshold								
	Exceed Significance?								

Phase 2 Construction Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	5	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00

Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	8.08600E-002	5.47250E-001	7.96630E-001	1.31000E-003	2.79200E-002	2.79200E-002	0.00000E+000	1.12343E+002	1.12343E+002	6.50000E-003	0.00000E+000	1.12506E+002
Concrete/Industrial Saws	1.15400E-002	9.11400E-002	1.10220E-001	1.90000E-004	5.19000E-003	5.19000E-003	0.00000E+000	1.61297E+001	1.61297E+001	9.40000E-004	0.00000E+000	1.61531E+001
Cranes	1.41000E-001	1.54950E+000	7.27880E-001	2.27000E-003	6.43000E-002	5.91600E-002	0.00000E+000	1.99609E+002	1.99609E+002	6.45600E-002	0.00000E+000	2.01223E+002
Excavators	3.43800E-002	3.23010E-001	4.90770E-001	7.80000E-004	1.56700E-002	1.44100E-002	0.00000E+000	6.80650E+001	6.80650E+001	2.20100E-002	0.00000E+000	6.86153E+001
Forklifts	1.43120E-001	1.33242E+000	1.55002E+000	2.06000E-003	8.42300E-002	7.74900E-002	0.00000E+000	1.81293E+002	1.81293E+002	5.86300E-002	0.00000E+000	1.82759E+002
Generator Sets	1.40320E-001	1.24729E+000	1.65204E+000	2.96000E-003	5.95600E-002	5.95600E-002	0.00000E+000	2.54343E+002	2.54343E+002	1.13500E-002	0.00000E+000	2.54627E+002
Graders	1.35900E-002	1.77740E-001	5.30200E-002	2.00000E-004	5.63000E-003	5.18000E-003	0.00000E+000	1.74638E+001	1.74638E+001	5.65000E-003	0.00000E+000	1.76050E+001
Pavers	1.04300E-002	9.49900E-002	1.73750E-001	2.80000E-004	4.45000E-003	4.09000E-003	0.00000E+000	2.47658E+001	2.47658E+001	8.01000E-003	0.00000E+000	2.49660E+001
Paving Equipment	8.81000E-003	7.58800E-002	1.52790E-001	2.40000E-004	3.75000E-003	3.45000E-003	0.00000E+000	2.14631E+001	2.14631E+001	6.94000E-003	0.00000E+000	2.16367E+001
Rollers	8.22000E-003	8.65800E-002	1.10800E-001	1.60000E-004	4.35000E-003	4.01000E-003	0.00000E+000	1.38289E+001	1.38289E+001	4.47000E-003	0.00000E+000	1.39407E+001
Rubber Tired Dozers	1.56950E-001	1.64569E+000	6.05670E-001	1.28000E-003	7.98700E-002	7.34800E-002	0.00000E+000	1.12584E+002	1.12584E+002	3.64100E-002	0.00000E+000	1.13494E+002
Scrapers	5.57700E-002	6.42170E-001	4.20280E-001	9.10000E-004	2.49800E-002	2.29800E-002	0.00000E+000	7.99000E+001	7.99000E+001	2.58400E-002	0.00000E+000	8.05461E+001
Tractors/Loaders/Backhoes	2.11340E-001	2.14039E+000	2.95971E+000	4.11000E-003	1.11150E-001	1.02260E-001	0.00000E+000	3.61272E+002	3.61272E+002	1.16840E-001	0.00000E+000	3.64193E+002
Welders	1.17100E-001	6.43330E-001	7.57370E-001	1.15000E-003	2.57800E-002	2.57800E-002	0.00000E+000	8.46993E+001	8.46993E+001	9.50000E-003	0.00000E+000	8.49369E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	8.08600E-002	5.47250E-001	7.96630E-001	1.31000E-003	2.79200E-002	2.79200E-002	0.00000E+000	1.12343E+002	1.12343E+002	6.50000E-003	0.00000E+000	1.12505E+002
Concrete/Industrial Saws	1.15400E-002	9.11400E-002	1.10220E-001	1.90000E-004	5.19000E-003	5.19000E-003	0.00000E+000	1.61297E+001	1.61297E+001	9.40000E-004	0.00000E+000	1.61531E+001
Cranes	1.41000E-001	1.54950E+000	7.27880E-001	2.27000E-003	6.43000E-002	5.91600E-002	0.00000E+000	1.99609E+002	1.99609E+002	6.45600E-002	0.00000E+000	2.01223E+002

Excavators	3.43800E-002	3.23010E-001	4.90770E-001	7.80000E-004	1.56700E-002	1.44100E-002	0.00000E+000	6.80649E+001	6.80649E+001	2.20100E-002	0.00000E+000	6.86152E+001
Forklifts	1.43120E-001	1.33242E+000	1.55001E+000	2.06000E-003	8.42300E-002	7.74900E-002	0.00000E+000	1.81293E+002	1.81293E+002	5.86300E-002	0.00000E+000	1.82759E+002
Generator Sets	1.40320E-001	1.24728E+000	1.65204E+000	2.96000E-003	5.95600E-002	5.95600E-002	0.00000E+000	2.54343E+002	2.54343E+002	1.13500E-002	0.00000E+000	2.54627E+002
Graders	1.35900E-002	1.77740E-001	5.30200E-002	2.00000E-004	5.63000E-003	5.18000E-003	0.00000E+000	1.74638E+001	1.74638E+001	5.65000E-003	0.00000E+000	1.76050E+001
Pavers	1.04300E-002	9.49900E-002	1.73750E-001	2.80000E-004	4.45000E-003	4.09000E-003	0.00000E+000	2.47658E+001	2.47658E+001	8.01000E-003	0.00000E+000	2.49660E+001
Paving Equipment	8.81000E-003	7.58800E-002	1.52790E-001	2.40000E-004	3.75000E-003	3.45000E-003	0.00000E+000	2.14631E+001	2.14631E+001	6.94000E-003	0.00000E+000	2.16366E+001
Rollers	8.22000E-003	8.65800E-002	1.10800E-001	1.60000E-004	4.35000E-003	4.01000E-003	0.00000E+000	1.38289E+001	1.38289E+001	4.47000E-003	0.00000E+000	1.39407E+001
Rubber Tired Dozers	1.56950E-001	1.64569E+000	6.05670E-001	1.28000E-003	7.98700E-002	7.34800E-002	0.00000E+000	1.12584E+002	1.12584E+002	3.64100E-002	0.00000E+000	1.13494E+002
Scrapers	5.57700E-002	6.42170E-001	4.20280E-001	9.10000E-004	2.49800E-002	2.29800E-002	0.00000E+000	7.98999E+001	7.98999E+001	2.58400E-002	0.00000E+000	8.05460E+001
Tractors/Loaders/Bac khoes	2.11340E-001	2.14039E+000	2.95970E+000	4.11000E-003	1.11150E-001	1.02260E-001	0.00000E+000	3.61272E+002	3.61272E+002	1.16840E-001	0.00000E+000	3.64193E+002
Welders	1.17100E-001	6.43330E-001	7.57370E-001	1.15000E-003	2.57800E-002	2.57800E-002	0.00000E+000	8.46992E+001	8.46992E+001	9.50000E-003	0.00000E+000	8.49368E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15717E-006	1.15717E-006	0.00000E+000	0.00000E+000	1.15550E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23815E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15225E-006	1.15225E-006	0.00000E+000	0.00000E+000	1.19271E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17535E-006	1.17535E-006	0.00000E+000	0.00000E+000	1.16592E-006
Forklifts	0.00000E+000	0.00000E+000	6.45153E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21350E-006	1.21350E-006	0.00000E+000	0.00000E+000	1.20377E-006
Generator Sets	0.00000E+000	8.01738E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17819E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14523E-006	1.14523E-006	0.00000E+000	0.00000E+000	1.13604E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21135E-006	1.21135E-006	0.00000E+000	0.00000E+000	1.20163E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.31831E-007	9.31831E-007	0.00000E+000	0.00000E+000	9.24357E-007
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.44625E-006	1.44625E-006	0.00000E+000	0.00000E+000	1.43465E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15469E-006	1.15469E-006	0.00000E+000	0.00000E+000	1.14543E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25156E-006	1.25156E-006	0.00000E+000	0.00000E+000	1.24153E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	3.37871E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19024E-006	1.19024E-006	0.00000E+000	0.00000E+000	1.18069E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17735E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.37	0.10	0.34	0.09	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	2.31	0.62	2.14	0.58	0.08	0.07
Demolition	Fugitive Dust	0.10	0.02	0.04	0.01	0.57	0.57
Demolition	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Grading	Fugitive Dust	0.26	0.11	0.11	0.05	0.57	0.57
Grading	Roads	0.02	0.01	0.02	0.00	0.07	0.07
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Site Preparation	Fugitive Dust	0.36	0.20	0.15	0.08	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.07

CalEEMod Output: Construction – Phase 3

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Phase 3 Construction - Los Angeles-South Coast County, Annual

Phase 3 Construction
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	180.00	1000sqft	4.53	180,000.00	0
Medical Office Building	70.00	1000sqft	1.61	70,000.00	0
General Heavy Industry	10.00	1000sqft	0.23	10,000.00	0
General Light Industry	30.00	1000sqft	0.69	30,000.00	0
Parking Lot	1.30	Acre	1.30	56,700.00	0
Hotel	52.00	Room	1.72	75,000.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 33
 Climate Zone 9 Operational Year 2028

Utility Company

CO2 Intensity 0 CH4 Intensity 0 N2O Intensity 0
 (lb/MW hr) (lb/MW hr) (lb/MW hr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes one water truck and two trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	880.00
tblConstructionPhase	NumDays	300.00	900.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	PhaseEndDate	8/31/2033	12/26/2030
tblConstructionPhase	PhaseStartDate	4/18/2030	8/13/2027
tblFleetMix	FleetMixLandUseSubType	Hospital	General Heavy Industry
tblFleetMix	FleetMixLandUseSubType	Medical Office Building	General Light Industry
tblFleetMix	FleetMixLandUseSubType	General Heavy Industry	Hospital
tblFleetMix	FleetMixLandUseSubType	General Light Industry	Hotel
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Medical Office Building
tblFleetMix	FleetMixLandUseSubType	Hotel	Parking Lot
tblGrading	MaterialExported	0.00	1,130.00
tblLandUse	BuildingSpaceSquareFeet	56,628.00	56,700.00
tblLandUse	BuildingSpaceSquareFeet	75,504.00	75,000.00
tblLandUse	LandUseSquareFeet	56,628.00	56,700.00
tblLandUse	LandUseSquareFeet	75,504.00	75,000.00

tblLandUse	LotAcreage	4.13	4.53
tblLandUse	LotAcreage	1.73	1.72
tblProjectCharacteristics	OperationalYear	2018	2028
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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					
2026	0.3077	2.8955	2.8821	7.1900e-003	0.8370	0.1090	0.9460	0.3546	0.1011	0.4557	0.0000	642.5698	642.5698	0.1389	0.0000	646.0427
2027	0.4664	2.3449	2.8942	7.7000e-003	0.2907	0.0737	0.3644	0.0785	0.0695	0.1480	0.0000	695.4008	695.4008	0.0863	0.0000	697.5594
2028	0.7896	2.4236	3.0491	8.0500e-003	0.3158	0.0776	0.3934	0.0852	0.0734	0.1585	0.0000	725.8441	725.8441	0.0871	0.0000	728.0207
2029	0.7881	2.4247	3.0244	8.0200e-003	0.3170	0.0778	0.3948	0.0855	0.0735	0.1590	0.0000	722.9251	722.9251	0.0870	0.0000	725.0992
2030	0.5853	0.4393	0.9690	2.0800e-003	0.0652	0.0142	0.0794	0.0174	0.0142	0.0316	0.0000	182.4230	182.4230	7.0300e-003	0.0000	182.5987
Maximum	0.7896	2.8955	3.0491	8.0500e-003	0.8370	0.1090	0.9460	0.3546	0.1011	0.4557	0.0000	725.8441	725.8441	0.1389	0.0000	728.0207

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					
2026	0.3077	2.8955	2.8821	7.1900e-003	0.4227	0.1090	0.5318	0.1694	0.1011	0.2705	0.0000	642.5693	642.5693	0.1389	0.0000	646.0421
2027	0.4664	2.3449	2.8942	7.7000e-003	0.2688	0.0737	0.3426	0.0732	0.0695	0.1426	0.0000	695.4004	695.4004	0.0863	0.0000	697.5590
2028	0.7896	2.4236	3.0491	8.0500e-003	0.2920	0.0776	0.3696	0.0793	0.0734	0.1527	0.0000	725.8437	725.8437	0.0871	0.0000	728.0203
2029	0.7881	2.4247	3.0244	8.0200e-003	0.2931	0.0778	0.3709	0.0796	0.0735	0.1532	0.0000	722.9247	722.9247	0.0870	0.0000	725.0988
2030	0.5853	0.4393	0.9690	2.0800e-003	0.0602	0.0142	0.0743	0.0162	0.0142	0.0303	0.0000	182.4229	182.4229	7.0300e-003	0.0000	182.5986
Maximum	0.7896	2.8955	3.0491	8.0500e-003	0.4227	0.1090	0.5318	0.1694	0.1011	0.2705	0.0000	725.8437	725.8437	0.1389	0.0000	728.0203

	ROG	NOx	CO	SO2	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	26.78	0.00	22.45	32.77	0.00	21.36	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2026	3-31-2026	0.7701	0.7701
2	4-1-2026	6-30-2026	0.9597	0.9597
3	7-1-2026	9-30-2026	0.8241	0.8241
4	10-1-2026	12-31-2026	0.6425	0.6425
5	1-1-2027	3-31-2027	0.6256	0.6256
6	4-1-2027	6-30-2027	0.6300	0.6300
7	7-1-2027	9-30-2027	0.7301	0.7301
8	10-1-2027	12-31-2027	0.8149	0.8149
9	1-1-2028	3-31-2028	0.8030	0.8030

10	4-1-2028	6-30-2028	0.8001	0.8001
11	7-1-2028	9-30-2028	0.8089	0.8089
12	10-1-2028	12-31-2028	0.8118	0.8118
13	1-1-2029	3-31-2029	0.7910	0.7910
14	4-1-2029	6-30-2029	0.7971	0.7971
15	7-1-2029	9-30-2029	0.8058	0.8058
16	10-1-2029	12-31-2029	0.8086	0.8086
17	1-1-2030	3-31-2030	0.4865	0.4865
18	4-1-2030	6-30-2030	0.2138	0.2138
19	7-1-2030	9-30-2030	0.1632	0.1632
		Highest	0.9597	0.9597

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	3/25/2026	5	60	
2	Site Preparation	Site Preparation	3/26/2026	5/20/2026	5	40	
3	Grading	Grading	5/21/2026	8/12/2026	5	60	
4	Building Construction	Building Construction	8/13/2026	1/23/2030	5	900	
5	Architectural Coating	Architectural Coating	8/13/2027	12/26/2030	5	880	
6	Paving	Paving	1/24/2030	4/17/2030	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 1.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 547,500; Non-Residential Outdoor: 182,500; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	785.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	141.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	152.00	69.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 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					0.0849	0.0000	0.0849	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0628	0.5759	0.5826	1.1700e-003		0.0256	0.0256		0.0238	0.0238	0.0000	101.9930	101.9930	0.0285	0.0000	102.7049
Total	0.0628	0.5759	0.5826	1.1700e-003	0.0849	0.0256	0.1105	0.0129	0.0238	0.0366	0.0000	101.9930	101.9930	0.0285	0.0000	102.7049

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0400e-003	0.0638	0.0233	2.8000e-004	6.7500e-003	1.1000e-004	6.8600e-003	1.8500e-003	1.1000e-004	1.9600e-003	0.0000	27.8995	27.8995	1.8900e-003	0.0000	27.9467
Vendor	1.2000e-004	4.1600e-003	1.2600e-003	1.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3993	1.3993	7.0000e-005	0.0000	1.4012
Worker	1.4700e-003	9.5000e-004	0.0116	4.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.7193	3.7193	8.0000e-005	0.0000	3.7213
Total	3.6300e-003	0.0689	0.0362	3.3000e-004	0.0121	1.5000e-004	0.0122	3.2700e-003	1.4000e-004	3.4100e-003	0.0000	33.0181	33.0181	2.0400e-003	0.0000	33.0692

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0363	0.0000	0.0363	5.5000e-003	0.0000	5.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0628	0.5759	0.5826	1.1700e-003		0.0256	0.0256		0.0238	0.0238	0.0000	101.9928	101.9928	0.0285	0.0000	102.7048
Total	0.0628	0.5759	0.5826	1.1700e-003	0.0363	0.0256	0.0619	5.5000e-003	0.0238	0.0293	0.0000	101.9928	101.9928	0.0285	0.0000	102.7048

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0400e-003	0.0638	0.0233	2.8000e-004	6.2900e-003	1.1000e-004	6.4000e-003	1.7400e-003	1.1000e-004	1.8500e-003	0.0000	27.8995	27.8995	1.8900e-003	0.0000	27.9467
Vendor	1.2000e-004	4.1600e-003	1.2600e-003	1.0000e-005	3.5000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3993	1.3993	7.0000e-005	0.0000	1.4012
Worker	1.4700e-003	9.5000e-004	0.0116	4.0000e-005	4.5500e-003	4.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.7193	3.7193	8.0000e-005	0.0000	3.7213
Total	3.6300e-003	0.0689	0.0362	3.3000e-004	0.0112	1.5000e-004	0.0113	3.0600e-003	1.4000e-004	3.2100e-003	0.0000	33.0181	33.0181	2.0400e-003	0.0000	33.0692

3.3 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	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0495	0.5047	0.3582	7.6000e-004		0.0217	0.0217		0.0200	0.0200	0.0000	66.9340	66.9340	0.0217	0.0000	67.4752
Total	0.0495	0.5047	0.3582	7.6000e-004	0.3613	0.0217	0.3831	0.1986	0.0200	0.2186	0.0000	66.9340	66.9340	0.0217	0.0000	67.4752

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	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	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
Vendor	8.0000e-005	2.7700e-003	8.4000e-004	1.0000e-005	2.5000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.9329	0.9329	5.0000e-005	0.0000	0.9341
Worker	1.1800e-003	7.6000e-004	9.3200e-003	3.0000e-005	3.9400e-003	3.0000e-005	3.9700e-003	1.0500e-003	3.0000e-005	1.0700e-003	0.0000	2.9754	2.9754	7.0000e-005	0.0000	2.9771
Total	1.2600e-003	3.5300e-003	0.0102	4.0000e-005	4.1900e-003	3.0000e-005	4.2300e-003	1.1200e-003	3.0000e-005	1.1500e-003	0.0000	3.9083	3.9083	1.2000e-004	0.0000	3.9112

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1545	0.0000	0.1545	0.0849	0.0000	0.0849	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0495	0.5047	0.3582	7.6000e-004		0.0217	0.0217		0.0200	0.0200	0.0000	66.9339	66.9339	0.0217	0.0000	67.4751
Total	0.0495	0.5047	0.3582	7.6000e-004	0.1545	0.0217	0.1762	0.0849	0.0200	0.1049	0.0000	66.9339	66.9339	0.0217	0.0000	67.4751

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-005	2.7700e-003	8.4000e-004	1.0000e-005	2.4000e-004	0.0000	2.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.9329	0.9329	5.0000e-005	0.0000	0.9341
Worker	1.1800e-003	7.6000e-004	9.3200e-003	3.0000e-005	3.6400e-003	3.0000e-005	3.6700e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	2.9754	2.9754	7.0000e-005	0.0000	2.9771
Total	1.2600e-003	3.5300e-003	0.0102	4.0000e-005	3.8800e-003	3.0000e-005	3.9100e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.9083	3.9083	1.2000e-004	0.0000	3.9112

3.4 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					0.2603	0.0000	0.2603	0.1079	0.0000	0.1079	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0870	0.8383	0.7899	1.8600e-003		0.0339	0.0339		0.0312	0.0312	0.0000	163.5186	163.5186	0.0529	0.0000	164.8408
Total	0.0870	0.8383	0.7899	1.8600e-003	0.2603	0.0339	0.2942	0.1079	0.0312	0.1391	0.0000	163.5186	163.5186	0.0529	0.0000	164.8408

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.7000e-004	0.0115	4.1800e-003	5.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.3000e-004	2.0000e-005	3.5000e-004	0.0000	5.0113	5.0113	3.4000e-004	0.0000	5.0197

Vendor	1.2000e-004	4.1600e-003	1.2600e-003	1.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3993	1.3993	7.0000e-005	0.0000	1.4012
Worker	1.9600e-003	1.2600e-003	0.0155	5.0000e-005	6.5700e-003	5.0000e-005	6.6200e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	4.9590	4.9590	1.1000e-004	0.0000	4.9618
Total	2.4500e-003	0.0169	0.0210	1.1000e-004	8.1600e-003	7.0000e-005	8.2300e-003	2.1900e-003	6.0000e-005	2.2500e-003	0.0000	11.3696	11.3696	5.2000e-004	0.0000	11.3827

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1113	0.0000	0.1113	0.0461	0.0000	0.0461	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0870	0.8383	0.7899	1.8600e-003		0.0339	0.0339		0.0312	0.0312	0.0000	163.5184	163.5184	0.0529	0.0000	164.8406
Total	0.0870	0.8383	0.7899	1.8600e-003	0.1113	0.0339	0.1452	0.0461	0.0312	0.0773	0.0000	163.5184	163.5184	0.0529	0.0000	164.8406

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.7000e-004	0.0115	4.1800e-003	5.0000e-005	1.1300e-003	2.0000e-005	1.1500e-003	3.1000e-004	2.0000e-005	3.3000e-004	0.0000	5.0113	5.0113	3.4000e-004	0.0000	5.0197
Vendor	1.2000e-004	4.1600e-003	1.2600e-003	1.0000e-005	3.5000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3993	1.3993	7.0000e-005	0.0000	1.4012

Worker	1.9600e-003	1.2600e-003	0.0155	5.0000e-005	6.0600e-003	5.0000e-005	6.1100e-003	1.6200e-003	4.0000e-005	1.6600e-003	0.0000	4.9590	4.9590	1.1000e-004	0.0000	4.9618
Total	2.4500e-003	0.0169	0.0210	1.1000e-004	7.5400e-003	7.0000e-005	7.6200e-003	2.0300e-003	6.0000e-005	2.1000e-003	0.0000	11.3696	11.3696	5.2000e-004	0.0000	11.3827

3.5 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	0.0691	0.6297	0.8123	1.3600e-003		0.0266	0.0266		0.0251	0.0251	0.0000	117.1193	117.1193	0.0275	0.0000	117.8076
Total	0.0691	0.6297	0.8123	1.3600e-003		0.0266	0.0266		0.0251	0.0251	0.0000	117.1193	117.1193	0.0275	0.0000	117.8076

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0100e-003	0.2415	0.0732	8.3000e-004	0.0220	2.7000e-004	0.0222	6.3400e-003	2.6000e-004	6.6000e-003	0.0000	81.2662	81.2662	4.3000e-003	0.0000	81.3737
Worker	0.0251	0.0162	0.1986	7.0000e-004	0.0841	6.1000e-004	0.0847	0.0223	5.6000e-004	0.0229	0.0000	63.4427	63.4427	1.3900e-003	0.0000	63.4774

Total	0.0321	0.2576	0.2718	1.5300e-003	0.1061	8.8000e-004	0.1069	0.0287	8.2000e-004	0.0295	0.0000	144.7089	144.7089	5.6900e-003	0.0000	144.8511
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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	tons/yr										MT/yr					
Off-Road	0.0691	0.6297	0.8123	1.3600e-003		0.0266	0.0266		0.0251	0.0251	0.0000	117.1192	117.1192	0.0275	0.0000	117.8075
Total	0.0691	0.6297	0.8123	1.3600e-003		0.0266	0.0266		0.0251	0.0251	0.0000	117.1192	117.1192	0.0275	0.0000	117.8075

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0100e-003	0.2415	0.0732	8.3000e-004	0.0206	2.7000e-004	0.0208	5.9900e-003	2.6000e-004	6.2500e-003	0.0000	81.2662	81.2662	4.3000e-003	0.0000	81.3737
Worker	0.0251	0.0162	0.1986	7.0000e-004	0.0776	6.1000e-004	0.0782	0.0207	5.6000e-004	0.0213	0.0000	63.4427	63.4427	1.3900e-003	0.0000	63.4774
Total	0.0321	0.2576	0.2718	1.5300e-003	0.0981	8.8000e-004	0.0990	0.0267	8.2000e-004	0.0275	0.0000	144.7089	144.7089	5.6900e-003	0.0000	144.8511

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0178	0.6183	0.1860	2.1500e-003	0.0567	6.9000e-004	0.0574	0.0164	6.6000e-004	0.0170	0.0000	209.0092	209.0092	0.0110	0.0000	209.2829
Worker	0.0618	0.0385	0.4810	1.7500e-003	0.2174	1.4900e-003	0.2189	0.0577	1.3700e-003	0.0591	0.0000	158.7203	158.7203	3.3000e-003	0.0000	158.8028
Total	0.0796	0.6568	0.6670	3.9000e-003	0.2741	2.1800e-003	0.2763	0.0741	2.0300e-003	0.0761	0.0000	367.7295	367.7295	0.0143	0.0000	368.0856

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0178	0.6183	0.1860	2.1500e-003	0.0531	6.9000e-004	0.0538	0.0155	6.6000e-004	0.0162	0.0000	209.0092	209.0092	0.0110	0.0000	209.2829
Worker	0.0618	0.0385	0.4810	1.7500e-003	0.2004	1.4900e-003	0.2019	0.0536	1.3700e-003	0.0549	0.0000	158.7203	158.7203	3.3000e-003	0.0000	158.8028
Total	0.0796	0.6568	0.6670	3.9000e-003	0.2535	2.1800e-003	0.2557	0.0691	2.0300e-003	0.0711	0.0000	367.7295	367.7295	0.0143	0.0000	368.0856

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0174	0.6112	0.1828	2.1300e-003	0.0565	6.8000e-004	0.0572	0.0163	6.5000e-004	0.0170	0.0000	207.3591	207.3591	0.0108	0.0000	207.6279
Worker	0.0585	0.0354	0.4511	1.7000e-003	0.2165	1.3700e-003	0.2179	0.0575	1.2600e-003	0.0588	0.0000	153.5011	153.5011	3.0300e-003	0.0000	153.5769
Total	0.0759	0.6466	0.6339	3.8300e-003	0.2730	2.0500e-003	0.2751	0.0738	1.9100e-003	0.0757	0.0000	360.8602	360.8602	0.0138	0.0000	361.2048

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
	Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0174	0.6112	0.1828	2.1300e-003	0.0529	6.8000e-004	0.0536	0.0154	6.5000e-004	0.0161	0.0000	207.3591	207.3591	0.0108	0.0000	207.6279
Worker	0.0585	0.0354	0.4511	1.7000e-003	0.1996	1.3700e-003	0.2010	0.0534	1.2600e-003	0.0546	0.0000	153.5011	153.5011	3.0300e-003	0.0000	153.5769
Total	0.0759	0.6466	0.6339	3.8300e-003	0.2526	2.0500e-003	0.2546	0.0688	1.9100e-003	0.0707	0.0000	360.8602	360.8602	0.0138	0.0000	361.2048

3.5 Building Construction - 2029

Unmitigated Construction On-Site

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

Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0172	0.6087	0.1811	2.1300e-003	0.0567	6.7000e-004	0.0574	0.0164	6.4000e-004	0.0170	0.0000	207.3979	207.3979	0.0107	0.0000	207.6644
Worker	0.0552	0.0327	0.4244	1.6600e-003	0.2174	1.2800e-003	0.2187	0.0577	1.1800e-003	0.0589	0.0000	149.9559	149.9559	2.7900e-003	0.0000	150.0256
Total	0.0724	0.6414	0.6055	3.7900e-003	0.2741	1.9500e-003	0.2761	0.0741	1.8200e-003	0.0759	0.0000	357.3537	357.3537	0.0135	0.0000	357.6900

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
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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	0.0172	0.6087	0.1811	2.1300e-003	0.0531	6.7000e-004	0.0538	0.0155	6.4000e-004	0.0161	0.0000	207.3979	207.3979	0.0107	0.0000	207.6644
Worker	0.0552	0.0327	0.4244	1.6600e-003	0.2004	1.2800e-003	0.2017	0.0536	1.1800e-003	0.0548	0.0000	149.9559	149.9559	2.7900e-003	0.0000	150.0256
Total	0.0724	0.6414	0.6055	3.7900e-003	0.2535	1.9500e-003	0.2555	0.0691	1.8200e-003	0.0709	0.0000	357.3537	357.3537	0.0135	0.0000	357.6900

3.5 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	0.0111	0.0674	0.1373	2.6000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	22.3432	22.3432	9.0000e-004	0.0000	22.3656
Total	0.0111	0.0674	0.1373	2.6000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	22.3432	22.3432	9.0000e-004	0.0000	22.3656

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1000e-003	0.0394	0.0117	1.4000e-004	3.7000e-003	4.0000e-005	3.7400e-003	1.0700e-003	4.0000e-005	1.1100e-003	0.0000	13.4641	13.4641	6.9000e-004	0.0000	13.4812
Worker	3.3600e-003	1.9500e-003	0.0259	1.1000e-004	0.0142	8.0000e-005	0.0142	3.7600e-003	7.0000e-005	3.8300e-003	0.0000	9.5266	9.5266	1.7000e-004	0.0000	9.5308
Total	4.4600e-003	0.0413	0.0376	2.5000e-004	0.0179	1.2000e-004	0.0180	4.8300e-003	1.1000e-004	4.9400e-003	0.0000	22.9907	22.9907	8.6000e-004	0.0000	23.0120

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0111	0.0674	0.1373	2.6000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	22.3432	22.3432	9.0000e-004	0.0000	22.3656
Total	0.0111	0.0674	0.1373	2.6000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	22.3432	22.3432	9.0000e-004	0.0000	22.3656

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1000e-003	0.0394	0.0117	1.4000e-004	3.4600e-003	4.0000e-005	3.5000e-003	1.0100e-003	4.0000e-005	1.0500e-003	0.0000	13.4641	13.4641	6.9000e-004	0.0000	13.4812
Worker	3.3600e-003	1.9500e-003	0.0259	1.1000e-004	0.0131	8.0000e-005	0.0131	3.4900e-003	7.0000e-005	3.5600e-003	0.0000	9.5266	9.5266	1.7000e-004	0.0000	9.5308
Total	4.4600e-003	0.0413	0.0376	2.5000e-004	0.0165	1.2000e-004	0.0166	4.5000e-003	1.1000e-004	4.6100e-003	0.0000	22.9907	22.9907	8.6000e-004	0.0000	23.0120

3.6 Architectural Coating - 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					
Archit. Coating	0.1951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6300e-003	0.0579	0.0914	1.5000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	12.8939	12.8939	7.0000e-004	0.0000	12.9115
Total	0.2037	0.0579	0.0914	1.5000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	12.8939	12.8939	7.0000e-004	0.0000	12.9115

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.7200e-003	2.9400e-003	0.0367	1.3000e-004	0.0166	1.1000e-004	0.0167	4.4100e-003	1.0000e-004	4.5100e-003	0.0000	12.1225	12.1225	2.5000e-004	0.0000	12.1288
Total	4.7200e-003	2.9400e-003	0.0367	1.3000e-004	0.0166	1.1000e-004	0.0167	4.4100e-003	1.0000e-004	4.5100e-003	0.0000	12.1225	12.1225	2.5000e-004	0.0000	12.1288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6300e-003	0.0579	0.0914	1.5000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	12.8939	12.8939	7.0000e-004	0.0000	12.9115
Total	0.2037	0.0579	0.0914	1.5000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	12.8939	12.8939	7.0000e-004	0.0000	12.9115

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.7200e-003	2.9400e-003	0.0367	1.3000e-004	0.0153	1.1000e-004	0.0154	4.0900e-003	1.0000e-004	4.2000e-003	0.0000	12.1225	12.1225	2.5000e-004	0.0000	12.1288
Total	4.7200e-003	2.9400e-003	0.0367	1.3000e-004	0.0153	1.1000e-004	0.0154	4.0900e-003	1.0000e-004	4.2000e-003	0.0000	12.1225	12.1225	2.5000e-004	0.0000	12.1288

3.6 Architectural Coating - 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					
Archit. Coating	0.5022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
Total	0.5244	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0116	7.0000e-003	0.0890	3.3000e-004	0.0427	2.7000e-004	0.0430	0.0114	2.5000e-004	0.0116	0.0000	30.2963	30.2963	6.0000e-004	0.0000	30.3112
Total	0.0116	7.0000e-003	0.0890	3.3000e-004	0.0427	2.7000e-004	0.0430	0.0114	2.5000e-004	0.0116	0.0000	30.2963	30.2963	6.0000e-004	0.0000	30.3112

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.5022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
Total	0.5244	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0116	7.0000e-003	0.0890	3.3000e-004	0.0394	2.7000e-004	0.0397	0.0105	2.5000e-004	0.0108	0.0000	30.2963	30.2963	6.0000e-004	0.0000	30.3112
Total	0.0116	7.0000e-003	0.0890	3.3000e-004	0.0394	2.7000e-004	0.0397	0.0105	2.5000e-004	0.0108	0.0000	30.2963	30.2963	6.0000e-004	0.0000	30.3112

3.6 Architectural Coating - 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					
Archit. Coating	0.5041					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	0.5264	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.4500e-003	0.0838	3.3000e-004	0.0429	2.5000e-004	0.0432	0.0114	2.3000e-004	0.0116	0.0000	29.5966	29.5966	5.5000e-004	0.0000	29.6103
Total	0.0109	6.4500e-003	0.0838	3.3000e-004	0.0429	2.5000e-004	0.0432	0.0114	2.3000e-004	0.0116	0.0000	29.5966	29.5966	5.5000e-004	0.0000	29.6103

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5041					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	0.5264	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.4500e-003	0.0838	3.3000e-004	0.0396	2.5000e-004	0.0398	0.0106	2.3000e-004	0.0108	0.0000	29.5966	29.5966	5.5000e-004	0.0000	29.6103
Total	0.0109	6.4500e-003	0.0838	3.3000e-004	0.0396	2.5000e-004	0.0398	0.0106	2.3000e-004	0.0108	0.0000	29.5966	29.5966	5.5000e-004	0.0000	29.6103

3.6 Architectural Coating - 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					
Archit. Coating	0.4983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1105	0.2319	3.8000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	32.9370	32.9370	1.3300e-003	0.0000	32.9703
Total	0.5152	0.1105	0.2319	3.8000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	32.9370	32.9370	1.3300e-003	0.0000	32.9703

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0101	5.8400e-003	0.0777	3.2000e-004	0.0424	2.3000e-004	0.0426	0.0113	2.1000e-004	0.0115	0.0000	28.5356	28.5356	5.0000e-004	0.0000	28.5480

Total	0.0101	5.8400e-003	0.0777	3.2000e-004	0.0424	2.3000e-004	0.0426	0.0113	2.1000e-004	0.0115	0.0000	28.5356	28.5356	5.0000e-004	0.0000	28.5480
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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	tons/yr										MT/yr					
Archit. Coating	0.4983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1105	0.2319	3.8000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	32.9369	32.9369	1.3300e-003	0.0000	32.9703
Total	0.5152	0.1105	0.2319	3.8000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	32.9369	32.9369	1.3300e-003	0.0000	32.9703

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0101	5.8400e-003	0.0777	3.2000e-004	0.0391	2.3000e-004	0.0393	0.0105	2.1000e-004	0.0107	0.0000	28.5356	28.5356	5.0000e-004	0.0000	28.5480
Total	0.0101	5.8400e-003	0.0777	3.2000e-004	0.0391	2.3000e-004	0.0393	0.0105	2.1000e-004	0.0107	0.0000	28.5356	28.5356	5.0000e-004	0.0000	28.5480

3.7 Paving - 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	0.0415	0.2136	0.4755	8.4000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	72.2985	72.2985	3.3900e-003	0.0000	72.3833
Paving	1.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0432	0.2136	0.4755	8.4000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	72.2985	72.2985	3.3900e-003	0.0000	72.3833

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	6.8000e-004	9.0300e-003	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.3181	3.3181	6.0000e-005	0.0000	3.3195
Total	1.1700e-003	6.8000e-004	9.0300e-003	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.3181	3.3181	6.0000e-005	0.0000	3.3195

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0415	0.2136	0.4755	8.4000e-004			9.9200e-003		9.9200e-003	9.9200e-003	0.0000	72.2985	72.2985	3.3900e-003	0.0000	72.3832
Paving	1.7000e-003						0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0432	0.2136	0.4755	8.4000e-004			9.9200e-003		9.9200e-003	9.9200e-003	0.0000	72.2985	72.2985	3.3900e-003	0.0000	72.3832

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	6.8000e-004	9.0300e-003	4.0000e-005	4.5500e-003	3.0000e-005	4.5700e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.3181	3.3181	6.0000e-005	0.0000	3.3195
Total	1.1700e-003	6.8000e-004	9.0300e-003	4.0000e-005	4.5500e-003	3.0000e-005	4.5700e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.3181	3.3181	6.0000e-005	0.0000	3.3195

Phase 3 Construction - Los Angeles-South Coast County, Summary Report

Phase 3 Construction
Los Angeles-South Coast, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	180.00	1000sqft	4.53	180,000.00	0
Medical Office Building	70.00	1000sqft	1.61	70,000.00	0
General Heavy Industry	10.00	1000sqft	0.23	10,000.00	0
General Light Industry	30.00	1000sqft	0.69	30,000.00	0
Parking Lot	1.30	Acre	1.30	56,700.00	0
Hotel	52.00	Room	1.72	75,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes one water truck and two trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
lb/day													
2026	Demolition	2.2206 W	21.4520 W	20.6360 S	0.0502 S	4.0972 W	1.3362 W	2.2206 W	21.4520 W	20.6360 S	0.0502 S	2.4476 W	1.0837 W
2026	Site Preparation	2.5426 W	25.4072 W	18.4507 S	0.0403 S	19.3686 W	10.9890 W	2.5426 W	25.4072 W	18.4507 S	0.0403 S	9.0092 W	5.2997 W
2026	Grading	2.9908 W	28.4954 W	27.0622 S	0.0662 S	10.0863 W	4.7138 W	2.9908 W	28.4954 W	27.0622 S	0.0662 S	5.0984 W	2.6494 W
2026	Building Construction	2.0650 W	17.4907 W	21.6813 S	0.0582 S	2.6859 W	1.0904 W	2.0650 W	17.4907 W	21.6813 S	0.0582 S	2.5247 W	1.0508 W
2027	Building Construction	2.0378 W	17.4239 W	21.3965 S	0.0576 S	2.6852 W	1.0897 W	2.0378 W	17.4239 W	21.3965 S	0.0576 S	2.5239 W	1.0501 W
2028	Building Construction	2.0097 W	17.3666 W	21.1490 S	0.0571 S	2.6843 W	1.0889 W	2.0097 W	17.3666 W	21.1490 S	0.0571 S	2.5230 W	1.0493 W
2029	Building Construction	1.9778 W	17.3094 W	20.9015 S	0.0567 S	2.6834 W	1.0881 W	1.9778 W	17.3094 W	20.9015 S	0.0567 S	2.5222 W	1.0485 W
2030	Building Construction	1.8871 W	12.7191 W	20.7477 S	0.0603 S	2.3032 W	0.7392 W	1.8871 W	12.7191 W	20.7477 S	0.0603 S	2.1420 W	0.6997 W
2027	Architectural Coating	4.1384 W	1.2021 W	2.5887 S	5.7400e-003 S	0.3891 S	0.1425 S	4.1384 W	1.2021 W	2.5887 S	5.7400e-003 S	0.3629 S	0.1361 S
2028	Architectural Coating	4.1334 W	1.1978 W	2.5435 S	5.6600e-003 S	0.3889 S	0.1424 S	4.1334 W	1.1978 W	2.5435 S	5.6600e-003 S	0.3627 S	0.1359 S
2029	Architectural Coating	4.1275 W	1.1936 W	2.4980 S	5.5900e-003 S	0.3888 S	0.1422 S	4.1275 W	1.1936 W	2.4980 S	5.5900e-003 S	0.3625 S	0.1358 S
2030	Architectural Coating	4.0814 W	0.9003 W	2.4446 S	5.5200e-003 S	0.3575 S	0.1109 S	4.0814 W	0.9003 W	2.4446 S	5.5200e-003 S	0.3312 S	0.1045 S
2030	Paving	1.4852 W	7.1422 W	16.1729 S	0.0293 S	0.4992 S	0.3759 S	1.4852 W	7.1422 W	16.1729 S	0.0293 S	0.4861 S	0.3727 S
	Peak Daily Total	4.1384 W	28.4954 W	27.0622 S	0.0662 S	19.3686 W	10.9890 W	4.1384 W	28.4954 W	27.0622 S	0.0662 S	9.0092 W	5.2997 W
	Air District Threshold												

Exceed Significance?													
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3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2026	642.5698	0.1389	0.0000	646.0427	642.5692	0.1389	0.0000	646.0422
Construction	2027	695.4008	0.0863	0.0000	697.5594	695.4004	0.0863	0.0000	697.5591
Construction	2028	725.8441	0.0871	0.0000	728.0206	725.8437	0.0871	0.0000	728.0202
Construction	2029	722.9251	0.0870	0.0000	725.0992	722.9247	0.0870	0.0000	725.0988
Construction	2030	182.4230	7.0307e-003	0.0000	182.5988	182.4229	7.0307e-003	0.0000	182.5986
	Total								
	Significance Threshold								
	Exceed Significance?								

Phase 3 Construction Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	5	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00

Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	7.00000E-002	4.66710E-001	7.94550E-001	1.31000E-003	1.86400E-002	1.86400E-002	0.00000E+000	1.12343E+002	1.12343E+002	5.66000E-003	0.00000E+000	1.12485E+002
Concrete/Industrial Saws	8.85000E-003	6.80800E-002	1.09350E-001	1.90000E-004	2.78000E-003	2.78000E-003	0.00000E+000	1.61297E+001	1.61297E+001	7.10000E-004	0.00000E+000	1.61475E+001
Cranes	1.22810E-001	1.23039E+000	6.80890E-001	2.28000E-003	5.22300E-002	4.80700E-002	0.00000E+000	2.00375E+002	2.00375E+002	6.35000E-002	0.00000E+000	2.01962E+002
Excavators	2.50700E-002	1.83250E-001	4.88910E-001	7.80000E-004	8.98000E-003	8.27000E-003	0.00000E+000	6.80848E+001	6.80848E+001	2.20200E-002	0.00000E+000	6.86353E+001
Forklifts	1.17350E-001	1.09660E+000	1.53207E+000	2.07000E-003	5.82100E-002	5.35600E-002	0.00000E+000	1.81996E+002	1.81996E+002	5.77100E-002	0.00000E+000	1.83439E+002
Generator Sets	1.19280E-001	1.07292E+000	1.64657E+000	2.96000E-003	4.24300E-002	4.24300E-002	0.00000E+000	2.54343E+002	2.54343E+002	9.36000E-003	0.00000E+000	2.54577E+002
Graders	9.33000E-003	1.03700E-001	4.78200E-002	2.00000E-004	3.34000E-003	3.07000E-003	0.00000E+000	1.74245E+001	1.74245E+001	5.64000E-003	0.00000E+000	1.75654E+001
Pavers	1.73300E-002	8.23300E-002	1.92170E-001	3.50000E-004	4.28000E-003	4.28000E-003	0.00000E+000	2.97880E+001	2.97880E+001	1.42000E-003	0.00000E+000	2.98233E+001
Paving Equipment	1.45800E-002	6.85400E-002	1.66250E-001	3.00000E-004	3.52000E-003	3.52000E-003	0.00000E+000	2.59254E+001	2.59254E+001	1.19000E-003	0.00000E+000	2.59550E+001
Rollers	9.62000E-003	6.27300E-002	1.17070E-001	1.90000E-004	2.12000E-003	2.12000E-003	0.00000E+000	1.65852E+001	1.65852E+001	7.90000E-004	0.00000E+000	1.66049E+001
Rubber Tired Dozers	9.72100E-002	9.94680E-001	4.49660E-001	1.28000E-003	4.35200E-002	4.00400E-002	0.00000E+000	1.12531E+002	1.12531E+002	3.63900E-002	0.00000E+000	1.13441E+002
Scrapers	4.03100E-002	3.82250E-001	3.22840E-001	9.10000E-004	1.50500E-002	1.38400E-002	0.00000E+000	7.99128E+001	7.99128E+001	2.58500E-002	0.00000E+000	8.05590E+001
Tractors/Loaders/Backhoes	1.75470E-001	1.75714E+000	2.94852E+000	4.14000E-003	7.06900E-002	6.50700E-002	0.00000E+000	3.63217E+002	3.63217E+002	1.15420E-001	0.00000E+000	3.66103E+002
Welders	9.84300E-002	6.02670E-001	7.42820E-001	1.15000E-003	1.81900E-002	1.81900E-002	0.00000E+000	8.46993E+001	8.46993E+001	8.01000E-003	0.00000E+000	8.48995E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	7.00000E-002	4.66710E-001	7.94550E-001	1.31000E-003	1.86400E-002	1.86400E-002	0.00000E+000	1.12343E+002	1.12343E+002	5.66000E-003	0.00000E+000	1.12485E+002
Concrete/Industrial Saws	8.85000E-003	6.80800E-002	1.09350E-001	1.90000E-004	2.78000E-003	2.78000E-003	0.00000E+000	1.61297E+001	1.61297E+001	7.10000E-004	0.00000E+000	1.61474E+001
Cranes	1.22810E-001	1.23039E+000	6.80890E-001	2.28000E-003	5.22300E-002	4.80700E-002	0.00000E+000	2.00375E+002	2.00375E+002	6.35000E-002	0.00000E+000	2.01962E+002

Excavators	2.50700E-002	1.83250E-001	4.88910E-001	7.80000E-004	8.98000E-003	8.27000E-003	0.00000E+000	6.80848E+001	6.80848E+001	2.20200E-002	0.00000E+000	6.86353E+001
Forklifts	1.17350E-001	1.09660E+000	1.53206E+000	2.07000E-003	5.82100E-002	5.35600E-002	0.00000E+000	1.81996E+002	1.81996E+002	5.77100E-002	0.00000E+000	1.83439E+002
Generator Sets	1.19280E-001	1.07292E+000	1.64657E+000	2.96000E-003	4.24300E-002	4.24300E-002	0.00000E+000	2.54343E+002	2.54343E+002	9.36000E-003	0.00000E+000	2.54577E+002
Graders	9.33000E-003	1.03700E-001	4.78200E-002	2.00000E-004	3.34000E-003	3.07000E-003	0.00000E+000	1.74245E+001	1.74245E+001	5.64000E-003	0.00000E+000	1.75653E+001
Pavers	1.73300E-002	8.23300E-002	1.92170E-001	3.50000E-004	4.28000E-003	4.28000E-003	0.00000E+000	2.97879E+001	2.97879E+001	1.42000E-003	0.00000E+000	2.98233E+001
Paving Equipment	1.45800E-002	6.85400E-002	1.66250E-001	3.00000E-004	3.52000E-003	3.52000E-003	0.00000E+000	2.59253E+001	2.59253E+001	1.19000E-003	0.00000E+000	2.59550E+001
Rollers	9.62000E-003	6.27300E-002	1.17070E-001	1.90000E-004	2.12000E-003	2.12000E-003	0.00000E+000	1.65852E+001	1.65852E+001	7.90000E-004	0.00000E+000	1.66049E+001
Rubber Tired Dozers	9.72100E-002	9.94670E-001	4.49660E-001	1.28000E-003	4.35200E-002	4.00400E-002	0.00000E+000	1.12531E+002	1.12531E+002	3.63900E-002	0.00000E+000	1.13441E+002
Scrapers	4.03100E-002	3.82250E-001	3.22840E-001	9.10000E-004	1.50500E-002	1.38400E-002	0.00000E+000	7.99127E+001	7.99127E+001	2.58500E-002	0.00000E+000	8.05589E+001
Tractors/Loaders/Bac khoes	1.75470E-001	1.75714E+000	2.94852E+000	4.14000E-003	7.06900E-002	6.50700E-002	0.00000E+000	3.63216E+002	3.63216E+002	1.15420E-001	0.00000E+000	3.66102E+002
Welders	9.84300E-002	6.02670E-001	7.42820E-001	1.15000E-003	1.81900E-002	1.81900E-002	0.00000E+000	8.46992E+001	8.46992E+001	8.01000E-003	0.00000E+000	8.48994E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15717E-006	1.15717E-006	0.00000E+000	0.00000E+000	1.24461E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23858E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19776E-006	1.19776E-006	0.00000E+000	0.00000E+000	1.18834E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17500E-006	1.17500E-006	0.00000E+000	0.00000E+000	1.16558E-006
Forklifts	0.00000E+000	0.00000E+000	6.52712E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20882E-006	1.20882E-006	0.00000E+000	0.00000E+000	1.14480E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17842E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14781E-006	1.14781E-006	0.00000E+000	0.00000E+000	1.13861E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.34282E-006	1.34282E-006	0.00000E+000	0.00000E+000	1.00592E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.54289E-006	1.54289E-006	0.00000E+000	0.00000E+000	1.15585E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20589E-006	1.20589E-006	0.00000E+000	0.00000E+000	1.20446E-006
Rubber Tired Dozers	0.00000E+000	1.00535E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.24410E-006	1.24410E-006	0.00000E+000	0.00000E+000	1.23412E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25136E-006	1.25136E-006	0.00000E+000	0.00000E+000	1.24133E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18387E-006	1.18387E-006	0.00000E+000	0.00000E+000	1.20185E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17786E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.14	0.04	0.13	0.04	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.95	0.26	0.87	0.24	0.08	0.07
Demolition	Fugitive Dust	0.08	0.01	0.04	0.01	0.57	0.57
Demolition	Roads	0.01	0.00	0.01	0.00	0.07	0.06
Grading	Fugitive Dust	0.26	0.11	0.11	0.05	0.57	0.57
Grading	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Site Preparation	Fugitive Dust	0.36	0.20	0.15	0.08	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.07

CalEEMod Output: Construction – Phase 4

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Phase 4 Construction - Los Angeles-South Coast County, Annual

Phase 4 Construction
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	120.00	1000sqft	7.68	120,000.00	0
Research & Development	130.00	1000sqft	7.68	130,000.00	0
Parking Lot	1.52	Acre	1.52	66,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2033

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Grading -

Demolition -

Trips and VMT - Assumes one truck and two trips per day per truck.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	880.00
tblConstructionPhase	NumDays	300.00	900.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	58.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	PhaseEndDate	12/31/2030	12/27/2035
tblConstructionPhase	PhaseEndDate	12/31/2030	1/23/2035
tblConstructionPhase	PhaseEndDate	12/31/2030	3/25/2031
tblConstructionPhase	PhaseEndDate	12/31/2030	8/12/2031
tblConstructionPhase	PhaseEndDate	12/31/2030	4/14/2035
tblConstructionPhase	PhaseEndDate	12/31/2030	5/20/2031
tblConstructionPhase	PhaseStartDate	1/1/2031	8/13/2032
tblConstructionPhase	PhaseStartDate	1/1/2031	8/13/2031
tblConstructionPhase	PhaseStartDate	1/1/2031	5/21/2031
tblConstructionPhase	PhaseStartDate	1/1/2031	1/24/2035
tblConstructionPhase	PhaseStartDate	1/1/2031	3/26/2031
tblGrading	MaterialExported	0.00	907.00
tblLandUse	BuildingSpaceSquareFeet	66,298.32	66,300.00
tblLandUse	LandUseSquareFeet	66,298.32	66,300.00
tblLandUse	LotAcreage	2.75	7.68
tblLandUse	LotAcreage	2.98	7.68

tblProjectCharacteristics	OperationalYear	2018	2033
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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					
2031	0.2991	1.6329	2.6058	7.4300e-003	0.7860	0.0421	0.8281	0.3432	0.0420	0.3852	0.0000	666.6850	666.6850	0.0280	0.0000	667.3840
2032	0.3587	1.5532	2.6105	6.9900e-003	0.2101	0.0217	0.2318	0.0568	0.0216	0.0784	0.0000	620.9873	620.9873	0.0238	0.0000	621.5826
2033	0.5798	1.6075	2.7479	7.2900e-003	0.2278	0.0232	0.2510	0.0615	0.0231	0.0846	0.0000	646.6460	646.6460	0.0244	0.0000	647.2571
2034	0.5775	1.6037	2.7309	7.2600e-003	0.2278	0.0231	0.2509	0.0615	0.0231	0.0845	0.0000	644.5342	644.5342	0.0243	0.0000	645.1406
2035	0.4130	0.3335	0.8992	1.8800e-003	0.0488	7.7000e-003	0.0565	0.0130	7.6800e-003	0.0207	0.0000	163.6650	163.6650	5.5900e-003	0.0000	163.8049
Maximum	0.5798	1.6329	2.7479	7.4300e-003	0.7860	0.0421	0.8281	0.3432	0.0420	0.3852	0.0000	666.6850	666.6850	0.0280	0.0000	667.3840

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					
2031	0.2991	1.6329	2.6058	7.4300e-003	0.3853	0.0421	0.4273	0.1602	0.0420	0.2022	0.0000	666.6844	666.6844	0.0280	0.0000	667.3834
2032	0.3587	1.5532	2.6105	6.9900e-003	0.1944	0.0217	0.2161	0.0529	0.0216	0.0746	0.0000	620.9869	620.9869	0.0238	0.0000	621.5822
2033	0.5798	1.6075	2.7479	7.2900e-003	0.2106	0.0232	0.2338	0.0573	0.0231	0.0804	0.0000	646.6455	646.6455	0.0244	0.0000	647.2566
2034	0.5775	1.6037	2.7309	7.2600e-003	0.2106	0.0231	0.2338	0.0573	0.0231	0.0803	0.0000	644.5337	644.5337	0.0243	0.0000	645.1401
2035	0.4130	0.3335	0.8992	1.8800e-003	0.0451	7.7000e-003	0.0528	0.0121	7.6800e-003	0.0198	0.0000	163.6649	163.6649	5.5900e-003	0.0000	163.8047
Maximum	0.5798	1.6329	2.7479	7.4300e-003	0.3853	0.0421	0.4273	0.1602	0.0420	0.2022	0.0000	666.6844	666.6844	0.0280	0.0000	667.3834

	ROG	NOx	CO	SO2	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	30.30	0.00	28.09	36.60	0.00	30.02	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2031	3-31-2031	0.4434	0.4434
2	4-1-2031	6-30-2031	0.5493	0.5493
3	7-1-2031	9-30-2031	0.5009	0.5009
4	10-1-2031	12-31-2031	0.4337	0.4337
5	1-1-2032	3-31-2032	0.4271	0.4271
6	4-1-2032	6-30-2032	0.4259	0.4259
7	7-1-2032	9-30-2032	0.4956	0.4956
8	10-1-2032	12-31-2032	0.5541	0.5541

9	1-1-2033	3-31-2033	0.5403	0.5403
10	4-1-2033	6-30-2033	0.5449	0.5449
11	7-1-2033	9-30-2033	0.5509	0.5509
12	10-1-2033	12-31-2033	0.5523	0.5523
13	1-1-2034	3-31-2034	0.5387	0.5387
14	4-1-2034	6-30-2034	0.5435	0.5435
15	7-1-2034	9-30-2034	0.5495	0.5495
16	10-1-2034	12-31-2034	0.5507	0.5507
17	1-1-2035	3-31-2035	0.3621	0.3621
18	4-1-2035	6-30-2035	0.1473	0.1473
19	7-1-2035	9-30-2035	0.1179	0.1179
		Highest	0.5541	0.5541

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2031	3/25/2031	5	60	
2	Site Preparation	Site Preparation	3/26/2031	5/20/2031	5	40	
3	Grading	Grading	5/21/2031	8/12/2031	5	60	
4	Building Construction	Building Construction	8/13/2031	1/23/2035	5	900	
5	Architectural Coating	Architectural Coating	8/13/2032	12/27/2035	5	880	
6	Paving	Paving	1/24/2035	4/14/2035	5	58	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 1.52

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 375,000; Non-Residential Outdoor: 125,000; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
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	
Architectural Coating		1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		9	108.00	52.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition		6	15.00	2.00	605.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading		8	20.00	2.00	113.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving		6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation		7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 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					
Fugitive Dust					0.0655	0.0000	0.0655	9.9100e-003	0.0000	9.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.2933	0.5675	1.3900e-003		0.0105	0.0105		0.0105	0.0105	0.0000	119.1655	119.1655	5.0300e-003	0.0000	119.2912
Total	0.0622	0.2933	0.5675	1.3900e-003	0.0655	0.0105	0.0760	9.9100e-003	0.0105	0.0204	0.0000	119.1655	119.1655	5.0300e-003	0.0000	119.2912

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5300e-003	0.0462	0.0183	2.1000e-004	5.2000e-003	8.0000e-005	5.2800e-003	1.4300e-003	8.0000e-005	1.5000e-003	0.0000	21.0981	21.0981	1.4200e-003	0.0000	21.1337
Vendor	1.1000e-004	4.0000e-003	1.1900e-003	1.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3748	1.3748	7.0000e-005	0.0000	1.3766
Worker	1.0800e-003	6.2000e-004	8.4500e-003	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.2504	3.2504	5.0000e-005	0.0000	3.2518
Total	2.7200e-003	0.0508	0.0279	2.6000e-004	0.0105	1.1000e-004	0.0106	2.8500e-003	1.0000e-004	2.9400e-003	0.0000	25.7234	25.7234	1.5400e-003	0.0000	25.7620

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0280	0.0000	0.0280	4.2400e-003	0.0000	4.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.2933	0.5675	1.3900e-003		0.0105	0.0105		0.0105	0.0105	0.0000	119.1653	119.1653	5.0300e-003	0.0000	119.2910
Total	0.0622	0.2933	0.5675	1.3900e-003	0.0280	0.0105	0.0385	4.2400e-003	0.0105	0.0148	0.0000	119.1653	119.1653	5.0300e-003	0.0000	119.2910

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5300e-003	0.0462	0.0183	2.1000e-004	4.8500e-003	8.0000e-005	4.9300e-003	1.3400e-003	8.0000e-005	1.4200e-003	0.0000	21.0981	21.0981	1.4200e-003	0.0000	21.1337
Vendor	1.1000e-004	4.0000e-003	1.1900e-003	1.0000e-005	3.5000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3748	1.3748	7.0000e-005	0.0000	1.3766
Worker	1.0800e-003	6.2000e-004	8.4500e-003	4.0000e-005	4.5500e-003	3.0000e-005	4.5700e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.2504	3.2504	5.0000e-005	0.0000	3.2518
Total	2.7200e-003	0.0508	0.0279	2.6000e-004	9.7500e-003	1.1000e-004	9.8600e-003	2.6600e-003	1.0000e-004	2.7700e-003	0.0000	25.7234	25.7234	1.5400e-003	0.0000	25.7620

3.3 Site Preparation - 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					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0488	0.2734	0.3258	9.3000e-004		8.7300e-003	8.7300e-003		8.7300e-003	8.7300e-003	0.0000	80.0092	80.0092	3.9500e-003	0.0000	80.1079
Total	0.0488	0.2734	0.3258	9.3000e-004	0.3613	8.7300e-003	0.3701	0.1986	8.7300e-003	0.2073	0.0000	80.0092	80.0092	3.9500e-003	0.0000	80.1079

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.6700e-003	7.9000e-004	1.0000e-005	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.9166	0.9166	5.0000e-005	0.0000	0.9177
Worker	8.7000e-004	4.9000e-004	6.7600e-003	3.0000e-005	3.9400e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	2.6004	2.6004	4.0000e-005	0.0000	2.6014
Total	9.4000e-004	3.1600e-003	7.5500e-003	4.0000e-005	4.1900e-003	2.0000e-005	4.2200e-003	1.1200e-003	2.0000e-005	1.1500e-003	0.0000	3.5169	3.5169	9.0000e-005	0.0000	3.5191

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1545	0.0000	0.1545	0.0849	0.0000	0.0849	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0488	0.2734	0.3258	9.3000e-004		8.7300e-003	8.7300e-003		8.7300e-003	8.7300e-003	0.0000	80.0091	80.0091	3.9500e-003	0.0000	80.1078
Total	0.0488	0.2734	0.3258	9.3000e-004	0.1545	8.7300e-003	0.1632	0.0849	8.7300e-003	0.0936	0.0000	80.0091	80.0091	3.9500e-003	0.0000	80.1078

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.6700e-003	7.9000e-004	1.0000e-005	2.4000e-004	0.0000	2.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.9166	0.9166	5.0000e-005	0.0000	0.9177
Worker	8.7000e-004	4.9000e-004	6.7600e-003	3.0000e-005	3.6400e-003	2.0000e-005	3.6600e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.6004	2.6004	4.0000e-005	0.0000	2.6014
Total	9.4000e-004	3.1600e-003	7.5500e-003	4.0000e-005	3.8800e-003	2.0000e-005	3.9000e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	3.5169	3.5169	9.0000e-005	0.0000	3.5191

3.4 Grading - 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					
Fugitive Dust					0.2603	0.0000	0.2603	0.1079	0.0000	0.1079	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0984	0.4154	0.6907	2.1000e-003		0.0146	0.0146		0.0146	0.0146	0.0000	196.3087	196.3087	7.9300e-003	0.0000	196.5070
Total	0.0984	0.4154	0.6907	2.1000e-003	0.2603	0.0146	0.2749	0.1079	0.0146	0.1225	0.0000	196.3087	196.3087	7.9300e-003	0.0000	196.5070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9000e-004	8.6300e-003	3.4100e-003	4.0000e-005	9.7000e-004	1.0000e-005	9.9000e-004	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	3.9406	3.9406	2.7000e-004	0.0000	3.9473
Vendor	1.1000e-004	4.0000e-003	1.1900e-003	1.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3748	1.3748	7.0000e-005	0.0000	1.3766
Worker	1.4400e-003	8.2000e-004	0.0113	5.0000e-005	6.5700e-003	3.0000e-005	6.6100e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	4.3339	4.3339	7.0000e-005	0.0000	4.3357
Total	1.8400e-003	0.0135	0.0159	1.0000e-004	7.9200e-003	4.0000e-005	7.9800e-003	2.1300e-003	4.0000e-005	2.1700e-003	0.0000	9.6494	9.6494	4.1000e-004	0.0000	9.6595

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1113	0.0000	0.1113	0.0461	0.0000	0.0461	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0984	0.4154	0.6907	2.1000e-003		0.0146	0.0146		0.0146	0.0146	0.0000	196.3084	196.3084	7.9300e-003	0.0000	196.5068
Total	0.0984	0.4154	0.6907	2.1000e-003	0.1113	0.0146	0.1259	0.0461	0.0146	0.0608	0.0000	196.3084	196.3084	7.9300e-003	0.0000	196.5068

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9000e-004	8.6300e-003	3.4100e-003	4.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	3.9406	3.9406	2.7000e-004	0.0000	3.9473
Vendor	1.1000e-004	4.0000e-003	1.1900e-003	1.0000e-005	3.5000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3748	1.3748	7.0000e-005	0.0000	1.3766
Worker	1.4400e-003	8.2000e-004	0.0113	5.0000e-005	6.0600e-003	3.0000e-005	6.1000e-003	1.6200e-003	3.0000e-005	1.6500e-003	0.0000	4.3339	4.3339	7.0000e-005	0.0000	4.3357
Total	1.8400e-003	0.0135	0.0159	1.0000e-004	7.3200e-003	4.0000e-005	7.3800e-003	1.9700e-003	4.0000e-005	2.0200e-003	0.0000	9.6494	9.6494	4.1000e-004	0.0000	9.6595

3.5 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	0.0661	0.4007	0.8159	1.5600e-003		7.4800e-003	7.4800e-003		7.4800e-003	7.4800e-003	0.0000	132.7448	132.7448	5.3300e-003	0.0000	132.8780
Total	0.0661	0.4007	0.8159	1.5600e-003		7.4800e-003	7.4800e-003		7.4800e-003	7.4800e-003	0.0000	132.7448	132.7448	5.3300e-003	0.0000	132.8780

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1752	0.0521	6.2000e-004	0.0165	1.9000e-004	0.0167	4.7800e-003	1.8000e-004	4.9500e-003	0.0000	60.1718	60.1718	3.0500e-003	0.0000	60.2480
Worker	0.0131	7.4800e-003	0.1024	4.4000e-004	0.0598	3.1000e-004	0.0601	0.0159	2.8000e-004	0.0162	0.0000	39.3953	39.3953	6.4000e-004	0.0000	39.4114
Total	0.0180	0.1827	0.1545	1.0600e-003	0.0763	5.0000e-004	0.0768	0.0207	4.6000e-004	0.0211	0.0000	99.5671	99.5671	3.6900e-003	0.0000	99.6593

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0661	0.4007	0.8159	1.5600e-003		7.4800e-003	7.4800e-003		7.4800e-003	7.4800e-003	0.0000	132.7447	132.7447	5.3300e-003	0.0000	132.8778
Total	0.0661	0.4007	0.8159	1.5600e-003		7.4800e-003	7.4800e-003		7.4800e-003	7.4800e-003	0.0000	132.7447	132.7447	5.3300e-003	0.0000	132.8778

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1752	0.0521	6.2000e-004	0.0155	1.9000e-004	0.0157	4.5200e-003	1.8000e-004	4.7000e-003	0.0000	60.1718	60.1718	3.0500e-003	0.0000	60.2480
Worker	0.0131	7.4800e-003	0.1024	4.4000e-004	0.0551	3.1000e-004	0.0554	0.0147	2.8000e-004	0.0150	0.0000	39.3953	39.3953	6.4000e-004	0.0000	39.4114
Total	0.0180	0.1827	0.1545	1.0600e-003	0.0706	5.0000e-004	0.0711	0.0193	4.6000e-004	0.0197	0.0000	99.5671	99.5671	3.6900e-003	0.0000	99.6593

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0126	0.4514	0.1344	1.6000e-003	0.0429	4.8000e-004	0.0434	0.0124	4.6000e-004	0.0129	0.0000	155.7760	155.7760	7.8400e-003	0.0000	155.9719
Worker	0.0315	0.0177	0.2492	1.1100e-003	0.1550	7.5000e-004	0.1558	0.0412	6.9000e-004	0.0419	0.0000	100.1082	100.1082	1.5200e-003	0.0000	100.1462
Total	0.0441	0.4691	0.3836	2.7100e-003	0.1980	1.2300e-003	0.1992	0.0536	1.1500e-003	0.0547	0.0000	255.8842	255.8842	9.3600e-003	0.0000	256.1181

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0126	0.4514	0.1344	1.6000e-003	0.0402	4.8000e-004	0.0407	0.0117	4.6000e-004	0.0122	0.0000	155.7760	155.7760	7.8400e-003	0.0000	155.9719
Worker	0.0315	0.0177	0.2492	1.1100e-003	0.1429	7.5000e-004	0.1437	0.0382	6.9000e-004	0.0389	0.0000	100.1082	100.1082	1.5200e-003	0.0000	100.1462
Total	0.0441	0.4691	0.3836	2.7100e-003	0.1831	1.2300e-003	0.1844	0.0499	1.1500e-003	0.0511	0.0000	255.8842	255.8842	9.3600e-003	0.0000	256.1181

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0124	0.4453	0.1329	1.5800e-003	0.0426	4.7000e-004	0.0431	0.0123	4.5000e-004	0.0127	0.0000	154.3397	154.3397	7.7200e-003	0.0000	154.5327
Worker	0.0292	0.0161	0.2333	1.0800e-003	0.1539	6.9000e-004	0.1545	0.0409	6.4000e-004	0.0415	0.0000	97.5279	97.5279	1.3900e-003	0.0000	97.5625
Total	0.0416	0.4614	0.3662	2.6600e-003	0.1964	1.1600e-003	0.1976	0.0532	1.0900e-003	0.0542	0.0000	251.8676	251.8676	9.1100e-003	0.0000	252.0953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0124	0.4453	0.1329	1.5800e-003	0.0399	4.7000e-004	0.0404	0.0116	4.5000e-004	0.0121	0.0000	154.3397	154.3397	7.7200e-003	0.0000	154.5327
Worker	0.0292	0.0161	0.2333	1.0800e-003	0.1419	6.9000e-004	0.1425	0.0379	6.4000e-004	0.0386	0.0000	97.5279	97.5279	1.3900e-003	0.0000	97.5625
Total	0.0416	0.4614	0.3662	2.6600e-003	0.1817	1.1600e-003	0.1829	0.0496	1.0900e-003	0.0506	0.0000	251.8676	251.8676	9.1100e-003	0.0000	252.0953

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0123	0.4430	0.1325	1.5800e-003	0.0426	4.6000e-004	0.0431	0.0123	4.4000e-004	0.0127	0.0000	154.1543	154.1543	7.6800e-003	0.0000	154.3462
Worker	0.0274	0.0149	0.2196	1.0600e-003	0.1539	6.5000e-004	0.1545	0.0409	5.9000e-004	0.0415	0.0000	95.9275	95.9275	1.2700e-003	0.0000	95.9592
Total	0.0397	0.4579	0.3521	2.6400e-003	0.1964	1.1100e-003	0.1976	0.0532	1.0300e-003	0.0542	0.0000	250.0818	250.0818	8.9500e-003	0.0000	250.3054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0123	0.4430	0.1325	1.5800e-003	0.0399	4.6000e-004	0.0403	0.0116	4.4000e-004	0.0121	0.0000	154.1543	154.1543	7.6800e-003	0.0000	154.3462
Worker	0.0274	0.0149	0.2196	1.0600e-003	0.1419	6.5000e-004	0.1425	0.0379	5.9000e-004	0.0385	0.0000	95.9275	95.9275	1.2700e-003	0.0000	95.9592
Total	0.0397	0.4579	0.3521	2.6400e-003	0.1817	1.1100e-003	0.1828	0.0496	1.0300e-003	0.0506	0.0000	250.0818	250.0818	8.9500e-003	0.0000	250.3054

3.5 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.0609	0.1370	2.6000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	22.3432	22.3432	8.3000e-004	0.0000	22.3640
Total	0.0103	0.0609	0.1370	2.6000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	22.3432	22.3432	8.3000e-004	0.0000	22.3640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-004	0.0288	8.6300e-003	1.0000e-004	2.7800e-003	3.0000e-005	2.8100e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	10.0703	10.0703	5.0000e-004	0.0000	10.0828
Worker	1.6900e-003	9.2000e-004	0.0136	7.0000e-005	0.0101	4.0000e-005	0.0101	2.6700e-003	4.0000e-005	2.7100e-003	0.0000	6.1823	6.1823	8.0000e-005	0.0000	6.1842
Total	2.4900e-003	0.0298	0.0223	1.7000e-004	0.0128	7.0000e-005	0.0129	3.4700e-003	7.0000e-005	3.5400e-003	0.0000	16.2526	16.2526	5.8000e-004	0.0000	16.2669

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0103	0.0609	0.1370	2.6000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	22.3432	22.3432	8.3000e-004	0.0000	22.3640
Total	0.0103	0.0609	0.1370	2.6000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	22.3432	22.3432	8.3000e-004	0.0000	22.3640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-004	0.0288	8.6300e-003	1.0000e-004	2.6100e-003	3.0000e-005	2.6400e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	10.0703	10.0703	5.0000e-004	0.0000	10.0828
Worker	1.6900e-003	9.2000e-004	0.0136	7.0000e-005	9.2700e-003	4.0000e-005	9.3100e-003	2.4800e-003	4.0000e-005	2.5200e-003	0.0000	6.1823	6.1823	8.0000e-005	0.0000	6.1842
Total	2.4900e-003	0.0298	0.0223	1.7000e-004	0.0119	7.0000e-005	0.0120	3.2400e-003	7.0000e-005	3.3100e-003	0.0000	16.2526	16.2526	5.8000e-004	0.0000	16.2669

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-003	0.0432	0.0908	1.5000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	12.8939	12.8939	5.2000e-004	0.0000	12.9070
Total	0.1407	0.0432	0.0908	1.5000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	12.8939	12.8939	5.2000e-004	0.0000	12.9070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4700e-003	1.3900e-003	0.0196	9.0000e-005	0.0122	6.0000e-005	0.0122	3.2300e-003	5.0000e-005	3.2900e-003	0.0000	7.8612	7.8612	1.2000e-004	0.0000	7.8642
Total	2.4700e-003	1.3900e-003	0.0196	9.0000e-005	0.0122	6.0000e-005	0.0122	3.2300e-003	5.0000e-005	3.2900e-003	0.0000	7.8612	7.8612	1.2000e-004	0.0000	7.8642

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-003	0.0432	0.0908	1.5000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	12.8939	12.8939	5.2000e-004	0.0000	12.9070
Total	0.1407	0.0432	0.0908	1.5000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	12.8939	12.8939	5.2000e-004	0.0000	12.9070

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4700e-003	1.3900e-003	0.0196	9.0000e-005	0.0112	6.0000e-005	0.0113	3.0000e-003	5.0000e-005	3.0500e-003	0.0000	7.8612	7.8612	1.2000e-004	0.0000	7.8642
Total	2.4700e-003	1.3900e-003	0.0196	9.0000e-005	0.0112	6.0000e-005	0.0113	3.0000e-003	5.0000e-005	3.0500e-003	0.0000	7.8612	7.8612	1.2000e-004	0.0000	7.8642

3.6 Architectural Coating - 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					
Archit. Coating	0.3451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259
Total	0.3621	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9400e-003	3.2800e-003	0.0475	2.2000e-004	0.0313	1.4000e-004	0.0315	8.3200e-003	1.3000e-004	8.4500e-003	0.0000	19.8668	19.8668	2.8000e-004	0.0000	19.8739
Total	5.9400e-003	3.2800e-003	0.0475	2.2000e-004	0.0313	1.4000e-004	0.0315	8.3200e-003	1.3000e-004	8.4500e-003	0.0000	19.8668	19.8668	2.8000e-004	0.0000	19.8739

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258
Total	0.3621	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9400e-003	3.2800e-003	0.0475	2.2000e-004	0.0289	1.4000e-004	0.0290	7.7200e-003	1.3000e-004	7.8500e-003	0.0000	19.8668	19.8668	2.8000e-004	0.0000	19.8739
Total	5.9400e-003	3.2800e-003	0.0475	2.2000e-004	0.0289	1.4000e-004	0.0290	7.7200e-003	1.3000e-004	7.8500e-003	0.0000	19.8668	19.8668	2.8000e-004	0.0000	19.8739

3.6 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259
Total	0.3621	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5800e-003	3.0400e-003	0.0447	2.2000e-004	0.0313	1.3000e-004	0.0315	8.3200e-003	1.2000e-004	8.4400e-003	0.0000	19.5408	19.5408	2.6000e-004	0.0000	19.5472
Total	5.5800e-003	3.0400e-003	0.0447	2.2000e-004	0.0313	1.3000e-004	0.0315	8.3200e-003	1.2000e-004	8.4400e-003	0.0000	19.5408	19.5408	2.6000e-004	0.0000	19.5472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258
Total	0.3621	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5800e-003	3.0400e-003	0.0447	2.2000e-004	0.0289	1.3000e-004	0.0290	7.7200e-003	1.2000e-004	7.8400e-003	0.0000	19.5408	19.5408	2.6000e-004	0.0000	19.5472
Total	5.5800e-003	3.0400e-003	0.0447	2.2000e-004	0.0289	1.3000e-004	0.0290	7.7200e-003	1.2000e-004	7.8400e-003	0.0000	19.5408	19.5408	2.6000e-004	0.0000	19.5472

3.6 Architectural Coating - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3438					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.0981	0.2324	3.8000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	33.0646	33.0646	1.2200e-003	0.0000	33.0952
Total	0.3590	0.0981	0.2324	3.8000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	33.0646	33.0646	1.2200e-003	0.0000	33.0952

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2500e-003	2.8500e-003	0.0423	2.1000e-004	0.0312	1.2000e-004	0.0313	8.2900e-003	1.1000e-004	8.4000e-003	0.0000	19.1866	19.1866	2.4000e-004	0.0000	19.1925
Total	5.2500e-003	2.8500e-003	0.0423	2.1000e-004	0.0312	1.2000e-004	0.0313	8.2900e-003	1.1000e-004	8.4000e-003	0.0000	19.1866	19.1866	2.4000e-004	0.0000	19.1925

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3438					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.0981	0.2324	3.8000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	33.0646	33.0646	1.2200e-003	0.0000	33.0951
Total	0.3590	0.0981	0.2324	3.8000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	33.0646	33.0646	1.2200e-003	0.0000	33.0951

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2500e-003	2.8500e-003	0.0423	2.1000e-004	0.0288	1.2000e-004	0.0289	7.6900e-003	1.1000e-004	7.8100e-003	0.0000	19.1866	19.1866	2.4000e-004	0.0000	19.1925
Total	5.2500e-003	2.8500e-003	0.0423	2.1000e-004	0.0288	1.2000e-004	0.0289	7.6900e-003	1.1000e-004	7.8100e-003	0.0000	19.1866	19.1866	2.4000e-004	0.0000	19.1925

3.7 Paving - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0331	0.1414	0.4588	8.1000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003	0.0000	69.8886	69.8886	2.6900e-003	0.0000	69.9558
Paving	1.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0351	0.1414	0.4588	8.1000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003	0.0000	69.8886	69.8886	2.6900e-003	0.0000	69.9558

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-004	4.3000e-004	6.4600e-003	3.0000e-005	4.7700e-003	2.0000e-005	4.7900e-003	1.2700e-003	2.0000e-005	1.2800e-003	0.0000	2.9295	2.9295	4.0000e-005	0.0000	2.9304
Total	8.0000e-004	4.3000e-004	6.4600e-003	3.0000e-005	4.7700e-003	2.0000e-005	4.7900e-003	1.2700e-003	2.0000e-005	1.2800e-003	0.0000	2.9295	2.9295	4.0000e-005	0.0000	2.9304

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0331	0.1414	0.4588	8.1000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003	0.0000	69.8885	69.8885	2.6900e-003	0.0000	69.9558
Paving	1.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0351	0.1414	0.4588	8.1000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003	0.0000	69.8885	69.8885	2.6900e-003	0.0000	69.9558

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-004	4.3000e-004	6.4600e-003	3.0000e-005	4.3900e-003	2.0000e-005	4.4100e-003	1.1700e-003	2.0000e-005	1.1900e-003	0.0000	2.9295	2.9295	4.0000e-005	0.0000	2.9304
Total	8.0000e-004	4.3000e-004	6.4600e-003	3.0000e-005	4.3900e-003	2.0000e-005	4.4100e-003	1.1700e-003	2.0000e-005	1.1900e-003	0.0000	2.9295	2.9295	4.0000e-005	0.0000	2.9304

Phase 4 Construction - Los Angeles-South Coast County, Summary Report

**Phase 4 Construction
Los Angeles-South Coast, Summary Report**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	120.00	1000sqft	7.68	120,000.00	0
Research & Development	130.00	1000sqft	7.68	130,000.00	0
Parking Lot	1.52	Acre	1.52	66,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2033

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Grading -

Demolition -

Trips and VMT - Assumes one truck and two trips per day per truck.

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
lb/day													
2031	Demolition	2.1708 W	11.4422 W	19.8558 S	0.0551 S	2.8940 W	0.7815 W	2.1708 W	11.4422 W	19.8558 S	0.0551 S	1.6186 W	0.5860 W
2031	Site Preparation	2.4925 W	13.8235 W	16.6934 S	0.0485 S	18.7181 S	10.4255 W	2.4925 W	13.8235 W	16.6934 S	0.0485 S	8.3586 S	4.7361 S
2031	Grading	3.3483 W	14.2870 W	23.5775 S	0.0734 S	9.4341 W	4.1584 W	3.3483 W	14.2870 W	23.5775 S	0.0734 S	4.4470 W	2.0942 S
2031	Building Construction	1.7009 W	11.4989 S	19.3242 S	0.0523 S	1.6982 W	0.5734 W	1.7009 W	11.4989 S	19.3242 S	0.0523 S	1.5824 W	0.5450 W
2032	Building Construction	1.6787 W	11.4649 S	19.1859 S	0.0521 S	1.6977 W	0.5730 W	1.6787 W	11.4649 S	19.1859 S	0.0521 S	1.5819 W	0.5445 W
2033	Building Construction	1.6600 W	11.4354 S	19.0687 S	0.0519 S	1.6973 W	0.5726 W	1.6600 W	11.4354 S	19.0687 S	0.0519 S	1.5815 W	0.5441 W
2034	Building Construction	1.6441 W	11.4096 S	18.9534 S	0.0518 S	1.6969 W	0.5722 W	1.6441 W	11.4096 S	18.9534 S	0.0518 S	1.5811 W	0.5438 W
2035	Building Construction	1.5387 W	10.6168 S	18.8190 S	0.0516 S	1.6388 W	0.5141 W	1.5387 W	10.6168 S	18.8190 S	0.0516 S	1.5230 W	0.4857 W
2032	Architectural Coating	2.8404 W	0.8830 W	2.2150 S	4.7700e-003 S	0.2674 S	0.0866 S	2.8404 W	0.8830 W	2.2150 S	4.7700e-003 S	0.2481 S	0.0819 S
2033	Architectural Coating	2.8367 W	0.8808 W	2.1918 S	4.7300e-003 S	0.2673 S	0.0865 S	2.8367 W	0.8808 W	2.1918 S	4.7300e-003 S	0.2481 S	0.0818 S
2034	Architectural Coating	2.8336 W	0.8790 W	2.1691 S	4.7000e-003 S	0.2672 S	0.0865 S	2.8336 W	0.8790 W	2.1691 S	4.7000e-003 S	0.2480 S	0.0817 S
2035	Architectural Coating	2.8182 W	0.7791 W	2.1469 S	4.6800e-003 S	0.2568 S	0.0760 S	2.8182 W	0.7791 W	2.1469 S	4.6800e-003 S	0.2375 S	0.0713 S
2035	Paving	1.2404 W	4.8907 W	16.0607 S	0.0292 S	0.3557 S	0.2325 S	1.2404 W	4.8907 W	16.0607 S	0.0292 S	0.3426 S	0.2292 S
	Peak Daily Total	3.3483 W	14.2870 W	23.5775 S	0.0734 S	18.7181 S	10.4255 W	3.3483 W	14.2870 W	23.5775 S	0.0734 S	8.3586 S	4.7361 S
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2031	666.6850	0.0280	0.0000	667.3840	666.6844	0.0280	0.0000	667.3833
Construction	2032	620.9873	0.0238	0.0000	621.5826	620.9869	0.0238	0.0000	621.5822
Construction	2033	646.6460	0.0244	0.0000	647.2570	646.6455	0.0244	0.0000	647.2565
Construction	2034	644.5342	0.0243	0.0000	645.1406	644.5337	0.0243	0.0000	645.1402
Construction	2035	163.6650	5.5973e-003	0.0000	163.8049	163.6649	5.5973e-003	0.0000	163.8048
Operational	2033	4,349.0295	18.4016	0.0643	4,828.2301	4,349.0295	18.4016	0.0643	4,828.2301
	Total								
	Significance Threshold								
	Exceed Significance?								

Phase 4 Construction Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	5	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00

Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	5.58600E-002	3.64000E-001	7.90560E-001	1.31000E-003	7.59000E-003	7.59000E-003	0.00000E+000	1.12343E+002	1.12343E+002	4.43000E-003	0.00000E+000	1.12454E+002
Concrete/Industrial Saws	6.91000E-003	5.21500E-002	1.08880E-001	1.90000E-004	1.13000E-003	1.13000E-003	0.00000E+000	1.61297E+001	1.61297E+001	5.40000E-004	0.00000E+000	1.61432E+001
Cranes	1.04020E-001	3.45480E-001	5.33570E-001	2.79000E-003	1.10900E-002	1.10900E-002	0.00000E+000	2.39843E+002	2.39843E+002	8.42000E-003	0.00000E+000	2.40054E+002
Excavators	3.38300E-002	8.33900E-002	5.34020E-001	9.50000E-004	3.65000E-003	3.65000E-003	0.00000E+000	8.18896E+001	8.18896E+001	2.74000E-003	0.00000E+000	8.19581E+001
Forklifts	1.19880E-001	6.58550E-001	1.60998E+000	2.54000E-003	8.86000E-003	8.86000E-003	0.00000E+000	2.18500E+002	2.18500E+002	9.60000E-003	0.00000E+000	2.18740E+002
Generator Sets	8.76100E-002	8.09800E-001	1.63586E+000	2.96000E-003	1.66100E-002	1.66100E-002	0.00000E+000	2.54343E+002	2.54343E+002	7.14000E-003	0.00000E+000	2.54522E+002
Graders	8.76000E-003	2.77500E-002	4.65700E-002	2.40000E-004	9.70000E-004	9.70000E-004	0.00000E+000	2.09143E+001	2.09143E+001	7.00000E-004	0.00000E+000	2.09318E+001
Pavers	1.36300E-002	4.96500E-002	1.85380E-001	3.40000E-004	2.40000E-003	2.40000E-003	0.00000E+000	2.87950E+001	2.87950E+001	1.11000E-003	0.00000E+000	2.88229E+001
Paving Equipment	1.14200E-002	4.04400E-002	1.60560E-001	2.90000E-004	1.94000E-003	1.94000E-003	0.00000E+000	2.50612E+001	2.50612E+001	9.30000E-004	0.00000E+000	2.50843E+001
Rollers	8.02000E-003	5.13100E-002	1.12850E-001	1.90000E-004	1.09000E-003	1.09000E-003	0.00000E+000	1.60324E+001	1.60324E+001	6.50000E-004	0.00000E+000	1.60486E+001
Rubber Tired Dozers	8.75600E-002	4.77800E-001	3.45540E-001	1.57000E-003	1.80400E-002	1.80400E-002	0.00000E+000	1.34755E+002	1.34755E+002	7.11000E-003	0.00000E+000	1.34933E+002
Scrapers	4.82800E-002	1.97040E-001	2.20720E-001	9.30000E-004	7.46000E-003	7.46000E-003	0.00000E+000	9.61071E+001	9.61071E+001	3.89000E-003	0.00000E+000	9.62043E+001
Tractors/Loaders/Backhoes	2.27290E-001	1.35676E+000	3.09861E+000	5.02000E-003	2.49500E-002	2.49500E-002	0.00000E+000	4.31177E+002	4.31177E+002	1.82000E-002	0.00000E+000	4.31632E+002
Welders	7.36300E-002	5.37330E-001	7.20620E-001	1.15000E-003	7.32000E-003	7.32000E-003	0.00000E+000	8.46993E+001	8.46993E+001	5.95000E-003	0.00000E+000	8.48480E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	5.58600E-002	3.64000E-001	7.90560E-001	1.31000E-003	7.59000E-003	7.59000E-003	0.00000E+000	1.12343E+002	1.12343E+002	4.43000E-003	0.00000E+000	1.12454E+002
Concrete/Industrial Saws	6.91000E-003	5.21500E-002	1.08880E-001	1.90000E-004	1.13000E-003	1.13000E-003	0.00000E+000	1.61297E+001	1.61297E+001	5.40000E-004	0.00000E+000	1.61432E+001
Cranes	1.04020E-001	3.45480E-001	5.33570E-001	2.79000E-003	1.10900E-002	1.10900E-002	0.00000E+000	2.39843E+002	2.39843E+002	8.42000E-003	0.00000E+000	2.40054E+002

Excavators	3.38300E-002	8.33900E-002	5.34010E-001	9.50000E-004	3.65000E-003	3.65000E-003	0.00000E+000	8.18895E+001	8.18895E+001	2.74000E-003	0.00000E+000	8.19580E+001
Forklifts	1.19880E-001	6.58550E-001	1.60998E+000	2.54000E-003	8.86000E-003	8.86000E-003	0.00000E+000	2.18499E+002	2.18499E+002	9.60000E-003	0.00000E+000	2.18739E+002
Generator Sets	8.76100E-002	8.09800E-001	1.63586E+000	2.96000E-003	1.66100E-002	1.66100E-002	0.00000E+000	2.54343E+002	2.54343E+002	7.14000E-003	0.00000E+000	2.54522E+002
Graders	8.76000E-003	2.77500E-002	4.65700E-002	2.40000E-004	9.70000E-004	9.70000E-004	0.00000E+000	2.09143E+001	2.09143E+001	7.00000E-004	0.00000E+000	2.09318E+001
Pavers	1.36300E-002	4.96500E-002	1.85380E-001	3.40000E-004	2.40000E-003	2.40000E-003	0.00000E+000	2.87950E+001	2.87950E+001	1.11000E-003	0.00000E+000	2.88229E+001
Paving Equipment	1.14200E-002	4.04400E-002	1.60560E-001	2.90000E-004	1.94000E-003	1.94000E-003	0.00000E+000	2.50611E+001	2.50611E+001	9.30000E-004	0.00000E+000	2.50843E+001
Rollers	8.02000E-003	5.13100E-002	1.12850E-001	1.90000E-004	1.09000E-003	1.09000E-003	0.00000E+000	1.60324E+001	1.60324E+001	6.50000E-004	0.00000E+000	1.60486E+001
Rubber Tired Dozers	8.75600E-002	4.77800E-001	3.45540E-001	1.57000E-003	1.80400E-002	1.80400E-002	0.00000E+000	1.34755E+002	1.34755E+002	7.11000E-003	0.00000E+000	1.34933E+002
Scrapers	4.82800E-002	1.97040E-001	2.20720E-001	9.30000E-004	7.46000E-003	7.46000E-003	0.00000E+000	9.61070E+001	9.61070E+001	3.89000E-003	0.00000E+000	9.62042E+001
Tractors/Loaders/Bac khoes	2.27290E-001	1.35676E+000	3.09861E+000	5.02000E-003	2.49500E-002	2.49500E-002	0.00000E+000	4.31176E+002	4.31176E+002	1.82000E-002	0.00000E+000	4.31631E+002
Welders	7.36300E-002	5.37320E-001	7.20610E-001	1.15000E-003	7.32000E-003	7.32000E-003	0.00000E+000	8.46992E+001	8.46992E+001	5.95000E-003	0.00000E+000	8.48479E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15717E-006	1.15717E-006	0.00000E+000	0.00000E+000	1.15603E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23891E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20912E-006	1.20912E-006	0.00000E+000	0.00000E+000	1.16641E-006
Excavators	0.00000E+000	0.00000E+000	1.87259E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.09904E-006	1.09904E-006	0.00000E+000	0.00000E+000	1.22014E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18993E-006	1.18993E-006	0.00000E+000	0.00000E+000	1.18863E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17868E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.56283E-007	9.56283E-007	0.00000E+000	0.00000E+000	9.55484E-007
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.38913E-006	1.38913E-006	0.00000E+000	0.00000E+000	1.38779E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19707E-006	1.19707E-006	0.00000E+000	0.00000E+000	1.19597E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.24747E-006	1.24747E-006	0.00000E+000	0.00000E+000	1.24621E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18734E-006	1.18734E-006	0.00000E+000	0.00000E+000	1.18577E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14456E-006	1.14456E-006	0.00000E+000	0.00000E+000	1.14340E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18281E-006	1.18281E-006	0.00000E+000	0.00000E+000	1.20473E-006
Welders	0.00000E+000	1.86105E-005	1.38769E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17858E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.11	0.03	0.10	0.03	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.68	0.18	0.63	0.17	0.07	0.07
Demolition	Fugitive Dust	0.07	0.01	0.03	0.00	0.57	0.57
Demolition	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Grading	Fugitive Dust	0.26	0.11	0.11	0.05	0.57	0.57
Grading	Roads	0.01	0.00	0.01	0.00	0.08	0.08
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Site Preparation	Fugitive Dust	0.36	0.20	0.15	0.08	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.07

CalEEMod Output: Construction – Phase 1 Mitigated

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Phase 1 Construction - Los Angeles-South Coast County, Annual

Phase 1 Construction
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	280.00	1000sqft	1.86	280,000.00	0
Medical Office Building	60.00	1000sqft	0.78	60,000.00	0
Research & Development	180.00	1000sqft	1.46	180,000.00	0
Enclosed Parking with Elevator	1,750.00	Space	3.05	700,000.00	0
Parking Lot	6.43	Acre	6.43	279,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2020
Utility Company	Austin Energy				
CO2 Intensity (lb/MWhr)	1083.07	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes 1 water truck and 2 trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstructionPhase	NumDays	20.00	630.00
tblConstructionPhase	NumDays	300.00	650.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	30.00
tblFleetMix	FleetMixLandUseSubType	Hospital	Enclosed Parking with Elevator
tblFleetMix	FleetMixLandUseSubType	Medical Office Building	Hospital
tblFleetMix	FleetMixLandUseSubType	Research & Development	Medical Office Building
tblFleetMix	FleetMixLandUseSubType	Enclosed Parking with Elevator	Parking Lot
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Research & Development
tblGrading	MaterialExported	0.00	25,042.00
tblLandUse	BuildingSpaceSquareFeet	280,090.80	279,900.00
tblLandUse	LandUseSquareFeet	280,090.80	279,900.00
tblLandUse	LotAcreage	6.43	1.86
tblLandUse	LotAcreage	1.38	0.78
tblLandUse	LotAcreage	4.13	1.46
tblLandUse	LotAcreage	15.75	3.05
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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					
2018	0.7508	7.4973	5.3583	0.0143	1.1043	0.2768	1.3811	0.4015	0.2575	0.6590	0.0000	1,326.2600	1,326.2600	0.1790	0.0000	1,330.7346
2019	1.3220	6.9875	7.0994	0.0215	1.0999	0.2073	1.3072	0.2968	0.1956	0.4924	0.0000	1,986.8543	1,986.8543	0.1592	0.0000	1,990.8345
2020	1.9050	6.5645	7.1347	0.0225	1.1992	0.1856	1.3848	0.3232	0.1755	0.4987	0.0000	2,065.9856	2,065.9856	0.1567	0.0000	2,069.9042
2021	1.2027	0.8537	1.4587	3.7200e-003	0.2291	0.0355	0.2645	0.0611	0.0338	0.0949	0.0000	335.2988	335.2988	0.0284	0.0000	336.0087
Maximum	1.9050	7.4973	7.1347	0.0225	1.1992	0.2768	1.3848	0.4015	0.2575	0.6590	0.0000	2,065.9856	2,065.9856	0.1790	0.0000	2,069.9042

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					
2018	0.7508	7.4973	5.3583	0.0143	0.6791	0.0620	0.7410	0.2226	0.0583	0.2810	0.0000	1,326.2594	1,326.2594	0.1790	0.0000	1,330.7341
2019	1.3220	6.9875	7.0994	0.0215	1.0170	0.0691	1.0862	0.2765	0.0660	0.3424	0.0000	1,986.8539	1,986.8539	0.1592	0.0000	1,990.8341

2020	1.9050	6.5645	7.1347	0.0225	1.1086	0.0585	1.1671	0.3009	0.0559	0.3568	0.0000	2,065.9852	2,065.9852	0.1567	0.0000	2,069.9038
2021	1.2027	0.8537	1.4587	3.7200e-003	0.2114	7.6800e-003	0.2190	0.0568	7.2900e-003	0.0641	0.0000	335.2987	335.2987	0.0284	0.0000	336.0086
Maximum	1.9050	7.4973	7.1347	0.0225	1.1086	0.0691	1.1671	0.3009	0.0660	0.3568	0.0000	2,065.9852	2,065.9852	0.1790	0.0000	2,069.9038

	ROG	NOx	CO	SO2	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	16.97	72.02	25.92	20.86	71.70	40.16	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	1.4870	1.4870
2	4-1-2018	6-30-2018	2.2651	2.2651
3	7-1-2018	9-30-2018	2.2563	2.2563
4	10-1-2018	12-31-2018	2.0920	2.0920
5	1-1-2019	3-31-2019	1.8824	1.8824
6	4-1-2019	6-30-2019	1.8831	1.8831
7	7-1-2019	9-30-2019	2.1636	2.1636
8	10-1-2019	12-31-2019	2.2955	2.2955
9	1-1-2020	3-31-2020	2.0948	2.0948
10	4-1-2020	6-30-2020	2.0743	2.0743
11	7-1-2020	9-30-2020	2.0971	2.0971
12	10-1-2020	12-31-2020	2.1178	2.1178
13	1-1-2021	3-31-2021	1.0220	1.0220
14	4-1-2021	6-30-2021	0.3467	0.3467
15	7-1-2021	9-30-2021	0.3505	0.3505
		Highest	2.2955	2.2955

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	3/23/2018	5	60	
2	Site Preparation	Site Preparation	3/26/2018	5/4/2018	5	30	
3	Grading	Grading	5/7/2018	7/27/2018	5	60	
4	Building Construction	Building Construction	7/28/2018	1/22/2021	5	650	
5	Architectural Coating	Architectural Coating	7/28/2019	12/24/2021	5	630	
6	Paving	Paving	1/23/2021	3/19/2021	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 9.48

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 780,000; Non-Residential Outdoor: 260,000; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	786.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	3,130.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	578.00	246.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	116.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0851	0.0000	0.0851	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1116	1.1497	0.6691	1.1600e-003		0.0582	0.0582		0.0541	0.0541	0.0000	105.3722	105.3722	0.0290	0.0000	106.0980
Total	0.1116	1.1497	0.6691	1.1600e-003	0.0851	0.0582	0.1433	0.0129	0.0541	0.0670	0.0000	105.3722	105.3722	0.0290	0.0000	106.0980

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9400e-003	0.1313	0.0271	3.2000e-004	6.7500e-003	4.9000e-004	7.2400e-003	1.8500e-003	4.7000e-004	2.3200e-003	0.0000	30.9983	30.9983	2.1900e-003	0.0000	31.0530
Vendor	2.8000e-004	7.5100e-003	2.1100e-003	2.0000e-005	3.8000e-004	5.0000e-005	4.3000e-004	1.1000e-004	5.0000e-005	1.6000e-004	0.0000	1.5160	1.5160	1.0000e-004	0.0000	1.5186
Worker	2.4900e-003	2.1300e-003	0.0229	5.0000e-005	4.9300e-003	4.0000e-005	4.9800e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.8996	4.8996	1.8000e-004	0.0000	4.9042
Total	6.7100e-003	0.1409	0.0521	3.9000e-004	0.0121	5.8000e-004	0.0127	3.2700e-003	5.6000e-004	3.8300e-003	0.0000	37.4139	37.4139	2.4700e-003	0.0000	37.4758

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0315	0.0000	0.0315	4.7700e-003	0.0000	4.7700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1116	1.1497	0.6691	1.1600e-003		8.7200e-003	8.7200e-003		8.1200e-003	8.1200e-003	0.0000	105.3721	105.3721	0.0290	0.0000	106.0979
Total	0.1116	1.1497	0.6691	1.1600e-003	0.0315	8.7200e-003	0.0403	4.7700e-003	8.1200e-003	0.0129	0.0000	105.3721	105.3721	0.0290	0.0000	106.0979

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9400e-003	0.1313	0.0271	3.2000e-004	6.3000e-003	4.9000e-004	6.7800e-003	1.7400e-003	4.7000e-004	2.2100e-003	0.0000	30.9983	30.9983	2.1900e-003	0.0000	31.0530
Vendor	2.8000e-004	7.5100e-003	2.1100e-003	2.0000e-005	3.5000e-004	5.0000e-005	4.1000e-004	1.0000e-004	5.0000e-005	1.5000e-004	0.0000	1.5160	1.5160	1.0000e-004	0.0000	1.5186
Worker	2.4900e-003	2.1300e-003	0.0229	5.0000e-005	4.5500e-003	4.0000e-005	4.5900e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.8996	4.8996	1.8000e-004	0.0000	4.9042
Total	6.7100e-003	0.1409	0.0521	3.9000e-004	0.0112	5.8000e-004	0.0118	3.0600e-003	5.6000e-004	3.6200e-003	0.0000	37.4139	37.4139	2.4700e-003	0.0000	37.4758

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0684	0.7230	0.3371	5.7000e-004		0.0387	0.0387		0.0356	0.0356	0.0000	52.1399	52.1399	0.0162	0.0000	52.5457
Total	0.0684	0.7230	0.3371	5.7000e-004	0.2710	0.0387	0.3096	0.1490	0.0356	0.1845	0.0000	52.1399	52.1399	0.0162	0.0000	52.5457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	3.7600e-003	1.0600e-003	1.0000e-005	1.9000e-004	3.0000e-005	2.2000e-004	5.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7580	0.7580	5.0000e-005	0.0000	0.7593
Worker	1.5000e-003	1.2800e-003	0.0138	3.0000e-005	2.9600e-003	3.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.9398	2.9398	1.1000e-004	0.0000	2.9425
Total	1.6400e-003	5.0400e-003	0.0148	4.0000e-005	3.1500e-003	6.0000e-005	3.2100e-003	8.4000e-004	4.0000e-005	8.9000e-004	0.0000	3.6978	3.6978	1.6000e-004	0.0000	3.7018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1004	0.0000	0.1004	0.0552	0.0000	0.0552	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0684	0.7230	0.3371	5.7000e-004		5.8000e-003	5.8000e-003		5.3300e-003	5.3300e-003	0.0000	52.1398	52.1398	0.0162	0.0000	52.5456
Total	0.0684	0.7230	0.3371	5.7000e-004	0.1004	5.8000e-003	0.1062	0.0552	5.3300e-003	0.0605	0.0000	52.1398	52.1398	0.0162	0.0000	52.5456

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	3.7600e-003	1.0600e-003	1.0000e-005	1.8000e-004	3.0000e-005	2.0000e-004	5.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7580	0.7580	5.0000e-005	0.0000	0.7593
Worker	1.5000e-003	1.2800e-003	0.0138	3.0000e-005	2.7300e-003	3.0000e-005	2.7500e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.9398	2.9398	1.1000e-004	0.0000	2.9425
Total	1.6400e-003	5.0400e-003	0.0148	4.0000e-005	2.9100e-003	6.0000e-005	2.9500e-003	7.8000e-004	4.0000e-005	8.3000e-004	0.0000	3.6978	3.6978	1.6000e-004	0.0000	3.7018

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2616	0.0000	0.2616	0.1081	0.0000	0.1081	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1527	1.7857	1.0527	1.8600e-003		0.0790	0.0790		0.0727	0.0727	0.0000	169.9455	169.9455	0.0529	0.0000	171.2682
Total	0.1527	1.7857	1.0527	1.8600e-003	0.2616	0.0790	0.3406	0.1081	0.0727	0.1808	0.0000	169.9455	169.9455	0.0529	0.0000	171.2682

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0157	0.5227	0.1078	1.2600e-003	0.0269	1.9400e-003	0.0288	7.3900e-003	1.8600e-003	9.2400e-003	0.0000	123.4412	123.4412	8.7100e-003	0.0000	123.6589
Vendor	2.8000e-004	7.5100e-003	2.1100e-003	2.0000e-005	3.8000e-004	5.0000e-005	4.3000e-004	1.1000e-004	5.0000e-005	1.6000e-004	0.0000	1.5160	1.5160	1.0000e-004	0.0000	1.5186
Worker	3.3200e-003	2.8400e-003	0.0306	7.0000e-005	6.5700e-003	6.0000e-005	6.6300e-003	1.7500e-003	6.0000e-005	1.8000e-003	0.0000	6.5328	6.5328	2.5000e-004	0.0000	6.5389
Total	0.0193	0.5330	0.1405	1.3500e-003	0.0338	2.0500e-003	0.0359	9.2500e-003	1.9700e-003	0.0112	0.0000	131.4900	131.4900	9.0600e-003	0.0000	131.7164

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0969	0.0000	0.0969	0.0401	0.0000	0.0401	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1527	1.7857	1.0527	1.8600e-003		0.0119	0.0119		0.0109	0.0109	0.0000	169.9453	169.9453	0.0529	0.0000	171.2680
Total	0.1527	1.7857	1.0527	1.8600e-003	0.0969	0.0119	0.1088	0.0401	0.0109	0.0510	0.0000	169.9453	169.9453	0.0529	0.0000	171.2680

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0157	0.5227	0.1078	1.2600e-003	0.0251	1.9400e-003	0.0270	6.9400e-003	1.8600e-003	8.7900e-003	0.0000	123.4412	123.4412	8.7100e-003	0.0000	123.6589
Vendor	2.8000e-004	7.5100e-003	2.1100e-003	2.0000e-005	3.5000e-004	5.0000e-005	4.1000e-004	1.0000e-004	5.0000e-005	1.5000e-004	0.0000	1.5160	1.5160	1.0000e-004	0.0000	1.5186
Worker	3.3200e-003	2.8400e-003	0.0306	7.0000e-005	6.0600e-003	6.0000e-005	6.1200e-003	1.6200e-003	6.0000e-005	1.6800e-003	0.0000	6.5328	6.5328	2.5000e-004	0.0000	6.5389
Total	0.0193	0.5330	0.1405	1.3500e-003	0.0315	2.0500e-003	0.0335	8.6600e-003	1.9700e-003	0.0106	0.0000	131.4900	131.4900	9.0600e-003	0.0000	131.7164

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1487	1.2982	0.9757	1.4900e-003		0.0832	0.0832		0.0783	0.0783	0.0000	131.9608	131.9608	0.0323	0.0000	132.7691
Total	0.1487	1.2982	0.9757	1.4900e-003		0.0832	0.0832		0.0783	0.0783	0.0000	131.9608	131.9608	0.0323	0.0000	132.7691

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0640	1.7098	0.4807	3.5700e-003	0.0860	0.0119	0.0979	0.0248	0.0114	0.0362	0.0000	344.9655	344.9655	0.0237	0.0000	345.5570
Worker	0.1778	0.1521	1.6355	3.8700e-003	0.3515	3.2000e-003	0.3547	0.0934	2.9500e-003	0.0963	0.0000	349.2745	349.2745	0.0131	0.0000	349.6028
Total	0.2417	1.8619	2.1162	7.4400e-003	0.4375	0.0151	0.4526	0.1182	0.0143	0.1325	0.0000	694.2400	694.2400	0.0368	0.0000	695.1598

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1487	1.2981	0.9757	1.4900e-003		0.0178	0.0178		0.0171	0.0171	0.0000	131.9607	131.9607	0.0323	0.0000	132.7689
Total	0.1487	1.2981	0.9757	1.4900e-003		0.0178	0.0178		0.0171	0.0171	0.0000	131.9607	131.9607	0.0323	0.0000	132.7689

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0640	1.7098	0.4807	3.5700e-003	0.0805	0.0119	0.0924	0.0235	0.0114	0.0348	0.0000	344.9655	344.9655	0.0237	0.0000	345.5570
Worker	0.1778	0.1521	1.6355	3.8700e-003	0.3241	3.2000e-003	0.3273	0.0866	2.9500e-003	0.0896	0.0000	349.2745	349.2745	0.0131	0.0000	349.6028
Total	0.2417	1.8619	2.1162	7.4400e-003	0.4046	0.0151	0.4197	0.1101	0.0143	0.1244	0.0000	694.2400	694.2400	0.0368	0.0000	695.1598

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795
Total	0.3081	2.7508	2.2399	3.5100e-003		0.1683	0.1683		0.1583	0.1583	0.0000	306.8110	306.8110	0.0747	0.0000	308.6795

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1359	3.7920	1.0371	8.3000e-003	0.2022	0.0239	0.2261	0.0584	0.0228	0.0812	0.0000	802.7821	802.7821	0.0536	0.0000	804.1217
Worker	0.3778	0.3149	3.4244	8.8000e-003	0.8266	7.2700e-003	0.8338	0.2195	6.7000e-003	0.2262	0.0000	794.5369	794.5369	0.0273	0.0000	795.2199
Total	0.5137	4.1069	4.4615	0.0171	1.0288	0.0311	1.0599	0.2779	0.0295	0.3074	0.0000	1,597.3190	1,597.3190	0.0809	0.0000	1,599.3417

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3081	2.7508	2.2399	3.5100e-003		0.0363	0.0363		0.0348	0.0348	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792
Total	0.3081	2.7508	2.2399	3.5100e-003		0.0363	0.0363		0.0348	0.0348	0.0000	306.8106	306.8106	0.0747	0.0000	308.6792

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1359	3.7920	1.0371	8.3000e-003	0.1893	0.0239	0.2132	0.0552	0.0228	0.0780	0.0000	802.7821	802.7821	0.0536	0.0000	804.1217
Worker	0.3778	0.3149	3.4244	8.8000e-003	0.7621	7.2700e-003	0.7693	0.2037	6.7000e-003	0.2104	0.0000	794.5369	794.5369	0.0273	0.0000	795.2199
Total	0.5137	4.1069	4.4615	0.0171	0.9514	0.0311	0.9825	0.2589	0.0295	0.2884	0.0000	1,597.3190	1,597.3190	0.0809	0.0000	1,599.3417

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1169	3.4922	0.9453	8.2700e-003	0.2030	0.0162	0.2192	0.0586	0.0155	0.0741	0.0000	800.5783	800.5783	0.0509	0.0000	801.8501
Worker	0.3495	0.2819	3.1168	8.5600e-003	0.8297	7.0700e-003	0.8368	0.2204	6.5200e-003	0.2269	0.0000	773.3462	773.3462	0.0244	0.0000	773.9555
Total	0.4664	3.7740	4.0621	0.0168	1.0327	0.0233	1.0560	0.2790	0.0221	0.3010	0.0000	1,573.9245	1,573.9245	0.0752	0.0000	1,575.8055

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2777	2.5134	2.2072	3.5300e-003		0.0316	0.0316		0.0303	0.0303	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.2777	2.5134	2.2072	3.5300e-003		0.0316	0.0316		0.0303	0.0303	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1169	3.4922	0.9453	8.2700e-003	0.1901	0.0162	0.2063	0.0554	0.0155	0.0710	0.0000	800.5783	800.5783	0.0509	0.0000	801.8501
Worker	0.3495	0.2819	3.1168	8.5600e-003	0.7650	7.0700e-003	0.7721	0.2045	6.5200e-003	0.2110	0.0000	773.3462	773.3462	0.0244	0.0000	773.9555
Total	0.4664	3.7740	4.0621	0.0168	0.9551	0.0233	0.9784	0.2599	0.0221	0.2820	0.0000	1,573.9245	1,573.9245	0.0752	0.0000	1,575.8055

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0152	0.1395	0.1326	2.2000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	18.5310	18.5310	4.4700e-003	0.0000	18.6428
Total	0.0152	0.1395	0.1326	2.2000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	18.5310	18.5310	4.4700e-003	0.0000	18.6428

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.1942	0.0527	5.0000e-004	0.0124	4.0000e-004	0.0128	3.5800e-003	3.8000e-004	3.9600e-003	0.0000	48.5105	48.5105	2.9800e-003	0.0000	48.5849
Worker	0.0199	0.0155	0.1749	5.1000e-004	0.0507	4.2000e-004	0.0511	0.0135	3.8000e-004	0.0138	0.0000	45.7275	45.7275	1.3500e-003	0.0000	45.7612
Total	0.0260	0.2097	0.2275	1.0100e-003	0.0631	8.2000e-004	0.0639	0.0170	7.6000e-004	0.0178	0.0000	94.2381	94.2381	4.3300e-003	0.0000	94.3461

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1395	0.1326	2.2000e-004		1.6500e-003	1.6500e-003		1.5900e-003	1.5900e-003	0.0000	18.5310	18.5310	4.4700e-003	0.0000	18.6427
Total	0.0152	0.1395	0.1326	2.2000e-004		1.6500e-003	1.6500e-003		1.5900e-003	1.5900e-003	0.0000	18.5310	18.5310	4.4700e-003	0.0000	18.6427

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.1942	0.0527	5.0000e-004	0.0116	4.0000e-004	0.0120	3.3800e-003	3.8000e-004	3.7600e-003	0.0000	48.5105	48.5105	2.9800e-003	0.0000	48.5849
Worker	0.0199	0.0155	0.1749	5.1000e-004	0.0467	4.2000e-004	0.0471	0.0125	3.8000e-004	0.0129	0.0000	45.7275	45.7275	1.3500e-003	0.0000	45.7612
Total	0.0260	0.2097	0.2275	1.0100e-003	0.0583	8.2000e-004	0.0591	0.0159	7.6000e-004	0.0166	0.0000	94.2381	94.2381	4.3300e-003	0.0000	94.3461

3.6 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	0.4527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1028	0.1031	1.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	14.2982	14.2982	1.2100e-003	0.0000	14.3284
Total	0.4676	0.1028	0.1031	1.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003	0.0000	14.2982	14.2982	1.2100e-003	0.0000	14.3284

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0325	0.0271	0.2949	7.6000e-004	0.0712	6.3000e-004	0.0718	0.0189	5.8000e-004	0.0195	0.0000	68.4261	68.4261	2.3500e-003	0.0000	68.4849
Total	0.0325	0.0271	0.2949	7.6000e-004	0.0712	6.3000e-004	0.0718	0.0189	5.8000e-004	0.0195	0.0000	68.4261	68.4261	2.3500e-003	0.0000	68.4849

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1028	0.1031	1.7000e-004		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	14.2982	14.2982	1.2100e-003	0.0000	14.3284
Total	0.4676	0.1028	0.1031	1.7000e-004		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	14.2982	14.2982	1.2100e-003	0.0000	14.3284

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0325	0.0271	0.2949	7.6000e-004	0.0656	6.3000e-004	0.0663	0.0175	5.8000e-004	0.0181	0.0000	68.4261	68.4261	2.3500e-003	0.0000	68.4849
Total	0.0325	0.0271	0.2949	7.6000e-004	0.0656	6.3000e-004	0.0663	0.0175	5.8000e-004	0.0181	0.0000	68.4261	68.4261	2.3500e-003	0.0000	68.4849

3.6 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	1.0590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5124
Total	1.0907	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5124

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0702	0.0566	0.6255	1.7200e-003	0.1665	1.4200e-003	0.1679	0.0442	1.3100e-003	0.0455	0.0000	155.2044	155.2044	4.8900e-003	0.0000	155.3267
Total	0.0702	0.0566	0.6255	1.7200e-003	0.1665	1.4200e-003	0.1679	0.0442	1.3100e-003	0.0455	0.0000	155.2044	155.2044	4.8900e-003	0.0000	155.3267

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0590					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5123
Total	1.0907	0.2206	0.2399	3.9000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5123

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0702	0.0566	0.6255	1.7200e-003	0.1535	1.4200e-003	0.1550	0.0410	1.3100e-003	0.0424	0.0000	155.2044	155.2044	4.8900e-003	0.0000	155.3267
Total	0.0702	0.0566	0.6255	1.7200e-003	0.1535	1.4200e-003	0.1550	0.0410	1.3100e-003	0.0424	0.0000	155.2044	155.2044	4.8900e-003	0.0000	155.3267

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.1954	0.2327	3.8000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	32.6817	32.6817	2.2400e-003	0.0000	32.7377
Total	1.0628	0.1954	0.2327	3.8000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	32.6817	32.6817	2.2400e-003	0.0000	32.7377

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0639	0.0497	0.5615	1.6200e-003	0.1627	1.3400e-003	0.1641	0.0432	1.2400e-003	0.0445	0.0000	146.8344	146.8344	4.3200e-003	0.0000	146.9424
Total	0.0639	0.0497	0.5615	1.6200e-003	0.1627	1.3400e-003	0.1641	0.0432	1.2400e-003	0.0445	0.0000	146.8344	146.8344	4.3200e-003	0.0000	146.9424

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.1954	0.2327	3.8000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	32.6816	32.6816	2.2400e-003	0.0000	32.7377
Total	1.0628	0.1954	0.2327	3.8000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	32.6816	32.6816	2.2400e-003	0.0000	32.7377

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0639	0.0497	0.5615	1.6200e-003	0.1500	1.3400e-003	0.1514	0.0401	1.2400e-003	0.0413	0.0000	146.8344	146.8344	4.3200e-003	0.0000	146.9424
Total	0.0639	0.0497	0.5615	1.6200e-003	0.1500	1.3400e-003	0.1514	0.0401	1.2400e-003	0.0413	0.0000	146.8344	146.8344	4.3200e-003	0.0000	146.9424

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708
Paving	8.4200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0335	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.2900e-003	3.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0251	0.2584	0.2931	4.6000e-004		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707
Paving	8.4200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0335	0.2584	0.2931	4.6000e-004		2.0300e-003	2.0300e-003		1.8700e-003	1.8700e-003	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.0300e-003	3.0000e-005	3.0600e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689
Total	1.2900e-003	1.0000e-003	0.0113	3.0000e-005	3.0300e-003	3.0000e-005	3.0600e-003	8.1000e-004	2.0000e-005	8.4000e-004	0.0000	2.9668	2.9668	9.0000e-005	0.0000	2.9689

Phase 1 Construction - Los Angeles-South Coast County, Summary Report

**Phase 1 Construction
Los Angeles-South Coast, Summary Report**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	280.00	1000sqft	1.86	280,000.00	0
Medical Office Building	60.00	1000sqft	0.78	60,000.00	0
Research & Development	180.00	1000sqft	1.46	180,000.00	0
Enclosed Parking with Elevator	1,750.00	Space	3.05	700,000.00	0
Parking Lot	6.43	Acre	6.43	279,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2020
Utility Company	Austin Energy				
CO2 Intensity (lb/MW hr)	1083.07	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes 1 water truck and 2 trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
lb/day													
2018	Demolition	3.9536 W	42.9275 W	24.0604 W	0.0519 S	5.2045 W	2.3640 W	3.9536 W	42.9275 W	24.0604 W	0.0519 S	1.7414 W	0.5523 W
2018	Site Preparation	4.6824 W	48.5275 W	23.5155 S	0.0408 S	20.8607 W	12.3618 W	4.6824 W	48.5275 W	23.5155 S	0.0408 S	7.2811 W	4.0912 W
2018	Grading	5.7529 W	76.9438 W	39.8881 W	0.1074 S	12.5718 W	6.4057 W	5.7529 W	76.9438 W	39.8881 W	0.1074 S	4.7631 W	2.0579 W
2018	Building Construction	7.3932 W	56.2762 W	57.0401 S	0.1648 S	9.8088 W	3.8363 W	7.3932 W	56.2762 W	57.0401 S	0.1648 S	8.0240 W	2.5856 W
2019	Building Construction	6.6281 W	51.9365 W	52.5870 S	0.1616 S	9.5656 W	3.6074 W	6.6281 W	51.9365 W	52.5870 S	0.1616 S	7.9474 W	2.5124 W
2020	Building Construction	5.9882 W	47.4433 W	49.0121 S	0.1590 S	9.3317 W	3.3866 W	5.9882 W	47.4433 W	49.0121 S	0.1590 S	7.8496 W	2.4188 W
2021	Building Construction	5.4419 W	43.1519 W	46.0994 S	0.1563 S	9.0968 W	3.1644 W	5.4419 W	43.1519 W	46.0994 S	0.1563 S	7.7385 W	2.3125 W
2019	Architectural Coating	8.9928 W	2.3070 W	7.4344 S	0.0171 S	1.4366 S	0.4829 S	8.9928 W	2.3070 W	7.4344 S	0.0171 S	1.2257 S	0.3486 S
2020	Architectural Coating	8.9190 W	2.1043 W	6.9104 S	0.0167 S	1.4184 S	0.4648 S	8.9190 W	2.1043 W	6.9104 S	0.0167 S	1.2226 S	0.3456 S
2021	Architectural Coating	8.8560 W	1.9052 W	6.4897 S	0.0162 S	1.4012 S	0.4476 S	8.8560 W	1.9052 W	6.4897 S	0.0162 S	1.2197 S	0.3427 S
2021	Paving	1.7482 W	12.9680 W	15.2574 S	0.0245 S	0.8467 S	0.6692 S	1.7482 W	12.9680 W	15.2574 S	0.0245 S	0.2576 S	0.1360 S
	Peak Daily Total	8.9928 W	76.9438 W	57.0401 S	0.1648 S	20.8607 W	12.3618 W	8.9928 W	76.9438 W	57.0401 S	0.1648 S	8.0240 W	4.0912 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2018	1,326.2600	0.1790	0.0000	1,330.7347	1,326.2594	0.1790	0.0000	1,330.7341
Construction	2019	1,986.8543	0.1592	0.0000	1,990.8346	1,986.8539	0.1592	0.0000	1,990.8342
Construction	2020	2,065.9856	0.1567	0.0000	2,069.9042	2,065.9852	0.1567	0.0000	2,069.9038
Construction	2021	335.2988	0.0284	0.0000	336.0087	335.2987	0.0284	0.0000	336.0086
	Total								
	Significance Threshold								
	Exceed Significance?								

Phase 1 Construction
Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.77	0.78	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.67	0.66	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	1	1	Level 3	0.00
Concrete/Industrial Saws	Diesel	No Change	1	1	Level 3	0.00
Cranes	Diesel	No Change	1	1	Level 3	0.00
Excavators	Diesel	No Change	5	5	Level 3	0.00
Forklifts	Diesel	No Change	3	3	Level 3	0.00
Generator Sets	Diesel	No Change	1	1	Level 3	0.00
Graders	Diesel	No Change	1	1	Level 3	0.00
Pavers	Diesel	No Change	2	2	Level 3	0.00
Paving Equipment	Diesel	No Change	2	2	Level 3	0.00

Rollers	Diesel	No Change	2	2	Level 3	0.00
Rubber Tired Dozers	Diesel	No Change	6	6	Level 3	0.00
Scrapers	Diesel	No Change	2	2	Level 3	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	9	9	Level 3	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	7.46600E-002	5.18800E-001	5.75680E-001	9.40000E-004	3.37900E-002	3.37900E-002	0.00000E+000	8.04275E+001	8.04275E+001	6.04000E-003	0.00000E+000	8.05785E+001
Concrete/Industrial Saws	1.55800E-002	1.17450E-001	1.11720E-001	1.90000E-004	8.01000E-003	8.01000E-003	0.00000E+000	1.61297E+001	1.61297E+001	1.25000E-003	0.00000E+000	1.61609E+001
Cranes	1.40130E-001	1.66911E+000	6.40660E-001	1.64000E-003	7.02700E-002	6.46500E-002	0.00000E+000	1.46404E+002	1.46404E+002	4.66200E-002	0.00000E+000	1.47570E+002
Excavators	4.33700E-002	4.64380E-001	4.91350E-001	7.70000E-004	2.25200E-002	2.07200E-002	0.00000E+000	7.07039E+001	7.07039E+001	2.20100E-002	0.00000E+000	7.12542E+001
Forklifts	1.51980E-001	1.35955E+000	1.16107E+000	1.49000E-003	1.04240E-001	9.59000E-002	0.00000E+000	1.32972E+002	1.32972E+002	4.23500E-002	0.00000E+000	1.34031E+002
Generator Sets	1.41130E-001	1.20233E+000	1.20874E+000	2.14000E-003	7.10600E-002	7.10600E-002	0.00000E+000	1.83692E+002	1.83692E+002	1.13400E-002	0.00000E+000	1.83976E+002
Graders	1.55900E-002	2.13830E-001	5.74400E-002	2.00000E-004	6.95000E-003	6.39000E-003	0.00000E+000	1.82327E+001	1.82327E+001	5.68000E-003	0.00000E+000	1.83746E+001
Pavers	9.85000E-003	1.03800E-001	1.16190E-001	1.90000E-004	5.02000E-003	4.62000E-003	0.00000E+000	1.65130E+001	1.65130E+001	5.34000E-003	0.00000E+000	1.66465E+001
Paving Equipment	7.68000E-003	7.76100E-002	1.01660E-001	1.60000E-004	3.83000E-003	3.53000E-003	0.00000E+000	1.43138E+001	1.43138E+001	4.63000E-003	0.00000E+000	1.44295E+001
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22022E+000	9.22022E+000	2.98000E-003	0.00000E+000	9.29477E+000
Rubber Tired Dozers	1.57420E-001	1.69559E+000	5.90820E-001	1.15000E-003	8.24300E-002	7.58300E-002	0.00000E+000	1.05345E+002	1.05345E+002	3.28000E-002	0.00000E+000	1.06165E+002
Scrapers	6.88200E-002	8.51490E-001	5.27200E-001	9.10000E-004	3.35600E-002	3.08700E-002	0.00000E+000	8.29965E+001	8.29965E+001	2.58400E-002	0.00000E+000	8.36424E+001
Tractors/Loaders/Backhoes	2.26430E-001	2.26310E+000	2.24104E+000	3.02000E-003	1.51080E-001	1.38990E-001	0.00000E+000	2.70521E+002	2.70521E+002	8.59100E-002	0.00000E+000	2.72669E+002
Welders	1.22020E-001	5.23230E-001	5.84240E-001	8.30000E-004	3.12800E-002	3.12800E-002	0.00000E+000	6.11717E+001	6.11717E+001	9.95000E-003	0.00000E+000	6.14205E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	7.46600E-002	5.18800E-001	5.75680E-001	9.40000E-004	5.07000E-003	5.07000E-003	0.00000E+000	8.04274E+001	8.04274E+001	6.04000E-003	0.00000E+000	8.05784E+001
Concrete/Industrial Saws	1.55800E-002	1.17450E-001	1.11720E-001	1.90000E-004	1.20000E-003	1.20000E-003	0.00000E+000	1.61297E+001	1.61297E+001	1.25000E-003	0.00000E+000	1.61609E+001
Cranes	1.40130E-001	1.66910E+000	6.40660E-001	1.64000E-003	1.05400E-002	9.70000E-003	0.00000E+000	1.46404E+002	1.46404E+002	4.66200E-002	0.00000E+000	1.47569E+002

Excavators	4.33700E-002	4.64380E-001	4.91350E-001	7.70000E-004	3.38000E-003	3.11000E-003	0.00000E+000	7.07039E+001	7.07039E+001	2.20100E-002	0.00000E+000	7.12541E+001
Forklifts	1.51980E-001	1.35955E+000	1.16107E+000	1.49000E-003	1.56400E-002	1.43800E-002	0.00000E+000	1.32972E+002	1.32972E+002	4.23500E-002	0.00000E+000	1.34030E+002
Generator Sets	1.41130E-001	1.20233E+000	1.20873E+000	2.14000E-003	1.06600E-002	1.06600E-002	0.00000E+000	1.83692E+002	1.83692E+002	1.13400E-002	0.00000E+000	1.83976E+002
Graders	1.55900E-002	2.13830E-001	5.74400E-002	2.00000E-004	1.04000E-003	9.60000E-004	0.00000E+000	1.82326E+001	1.82326E+001	5.68000E-003	0.00000E+000	1.83745E+001
Pavers	9.85000E-003	1.03800E-001	1.16190E-001	1.90000E-004	7.50000E-004	6.90000E-004	0.00000E+000	1.65130E+001	1.65130E+001	5.34000E-003	0.00000E+000	1.66465E+001
Paving Equipment	7.68000E-003	7.76100E-002	1.01660E-001	1.60000E-004	5.70000E-004	5.30000E-004	0.00000E+000	1.43138E+001	1.43138E+001	4.63000E-003	0.00000E+000	1.44295E+001
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	7.10000E-004	6.50000E-004	0.00000E+000	9.22021E+000	9.22021E+000	2.98000E-003	0.00000E+000	9.29476E+000
Rubber Tired Dozers	1.57420E-001	1.69559E+000	5.90820E-001	1.15000E-003	1.23600E-002	1.13700E-002	0.00000E+000	1.05345E+002	1.05345E+002	3.28000E-002	0.00000E+000	1.06165E+002
Scrapers	6.88200E-002	8.51490E-001	5.27200E-001	9.10000E-004	5.03000E-003	4.63000E-003	0.00000E+000	8.29964E+001	8.29964E+001	2.58400E-002	0.00000E+000	8.36423E+001
Tractors/Loaders/Bac khoes	2.26430E-001	2.26310E+000	2.24104E+000	3.02000E-003	2.26600E-002	2.08500E-002	0.00000E+000	2.70521E+002	2.70521E+002	8.59100E-002	0.00000E+000	2.72669E+002
Welders	1.22020E-001	5.23230E-001	5.84240E-001	8.30000E-004	3.12800E-002	3.12800E-002	0.00000E+000	6.11716E+001	6.11716E+001	9.95000E-003	0.00000E+000	6.14204E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49956E-001	8.49956E-001	0.00000E+000	1.11902E-006	1.11902E-006	0.00000E+000	0.00000E+000	1.24103E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50187E-001	8.50187E-001	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23755E-006
Cranes	0.00000E+000	5.99122E-006	0.00000E+000	0.00000E+000	8.50007E-001	8.49961E-001	0.00000E+000	1.22947E-006	1.22947E-006	0.00000E+000	0.00000E+000	1.21976E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49911E-001	8.49903E-001	0.00000E+000	1.13148E-006	1.13148E-006	0.00000E+000	0.00000E+000	1.12274E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49962E-001	8.50052E-001	0.00000E+000	1.20326E-006	1.20326E-006	0.00000E+000	0.00000E+000	1.19376E-006
Generator Sets	0.00000E+000	0.00000E+000	8.27308E-006	0.00000E+000	8.49986E-001	8.49986E-001	0.00000E+000	1.19765E-006	1.19765E-006	0.00000E+000	0.00000E+000	1.19581E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50360E-001	8.49765E-001	0.00000E+000	1.09693E-006	1.09693E-006	0.00000E+000	0.00000E+000	1.08846E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50598E-001	8.50649E-001	0.00000E+000	1.21117E-006	1.21117E-006	0.00000E+000	0.00000E+000	1.20145E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.51175E-001	8.49858E-001	0.00000E+000	1.39726E-006	1.39726E-006	0.00000E+000	0.00000E+000	1.38605E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49257E-001	8.49885E-001	0.00000E+000	1.08457E-006	1.08457E-006	0.00000E+000	0.00000E+000	1.07587E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50055E-001	8.50059E-001	0.00000E+000	1.23404E-006	1.23404E-006	0.00000E+000	0.00000E+000	1.13031E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50119E-001	8.50016E-001	0.00000E+000	1.20487E-006	1.20487E-006	0.00000E+000	0.00000E+000	1.19557E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50013E-001	8.49989E-001	0.00000E+000	1.18290E-006	1.18290E-006	0.00000E+000	0.00000E+000	1.17358E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14432E-006	1.14432E-006	0.00000E+000	0.00000E+000	1.13969E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day) 3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.40	0.1	0.37	0.10	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	2.56	0.69	2.37	0.64	0.08	0.07
Demolition	Fugitive Dust	0.09	0.01	0.03	0.00	0.63	0.63
Demolition	Roads	0.01	0.00	0.01	0.00	0.07	0.06
Grading	Fugitive Dust	0.26	0.1	0.10	0.04	0.63	0.63
Grading	Roads	0.03	0.01	0.03	0.01	0.07	0.06
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Site Preparation	Fugitive Dust	0.27	0.15	0.10	0.06	0.63	0.63
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.08	0.07

CalEEMod Output: Construction – Phase 2 Mitigated

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Phase 2 Construction _Mit_Level 3 DPF - Los Angeles-South Coast County, Annual

Phase 2 Construction _Mit_Level 3 DPF
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	210.00	1000sqft	17.01	210,000.00	0
Research & Development	61.00	1000sqft	0.70	61,000.00	0
General Light Industry	20.00	1000sqft	0.93	20,000.00	0
Enclosed Parking with Elevator	1,250.00	Space	3.71	500,000.00	0
Parking Lot	3.97	Acre	3.97	172,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes one water truck and two trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186 and Mitigation Measure AQ-2 requiring Level 3 DPF.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstructionPhase	NumDays	35.00	880.00
tblConstructionPhase	NumDays	440.00	900.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	45.00	60.00
tblConstructionPhase	NumDays	35.00	60.00
tblConstructionPhase	NumDays	20.00	40.00
tblFleetMix	FleetMixLandUseSubType	Hospital	Enclosed Parking with Elevator
tblFleetMix	FleetMixLandUseSubType	Research & Development	General Light Industry
tblFleetMix	FleetMixLandUseSubType	General Light Industry	Hospital
tblFleetMix	FleetMixLandUseSubType	Enclosed Parking with Elevator	Parking Lot
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Research & Development
tblGrading	MaterialExported	0.00	11,265.00
tblLandUse	BuildingSpaceSquareFeet	172,933.20	172,900.00
tblLandUse	LandUseSquareFeet	172,933.20	172,900.00
tblLandUse	LotAcreage	4.82	17.01
tblLandUse	LotAcreage	1.40	0.70
tblLandUse	LotAcreage	0.46	0.93
tblLandUse	LotAcreage	11.25	3.71
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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	0.5179	5.2249	3.9028	0.0104	1.0221	0.1999	1.2219	0.4023	0.1854	0.5877	0.0000	942.8569	942.8569	0.1560	0.0000	946.7560
2022	0.6694	4.1865	4.5825	0.0144	0.7095	0.1175	0.8270	0.1914	0.1108	0.3022	0.0000	1,320.9956	1,320.9956	0.1169	0.0000	1,323.9178
2023	0.9239	3.6560	4.7047	0.0149	0.7761	0.1069	0.8830	0.2091	0.1010	0.3102	0.0000	1,363.2193	1,363.2193	0.1141	0.0000	1,366.0725
2024	0.9033	3.5300	4.5852	0.0148	0.7821	0.0950	0.8771	0.2107	0.0898	0.3005	0.0000	1,354.8609	1,354.8609	0.1129	0.0000	1,357.6835
2025	0.5380	0.6359	1.2092	2.8900e-003	0.1560	0.0249	0.1809	0.0416	0.0235	0.0652	0.0000	259.5060	259.5060	0.0302	0.0000	260.2610
Maximum	0.9239	5.2249	4.7047	0.0149	1.0221	0.1999	1.2219	0.4023	0.1854	0.5877	0.0000	1,363.2193	1,363.2193	0.1560	0.0000	1,366.0725

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.5179	5.2249	3.9028	0.0104	0.5844	0.0370	0.6213	0.2124	0.0346	0.2470	0.0000	942.8563	942.8563	0.1560	0.0000	946.7554

2022	0.6694	4.1865	4.5825	0.0144	0.6560	0.0317	0.6877	0.1783	0.0302	0.2085	0.0000	1,320.9952	1,320.9952	0.1169	0.0000	1,323.9174
2023	0.9239	3.6560	4.7047	0.0149	0.7174	0.0278	0.7453	0.1947	0.0266	0.2213	0.0000	1,363.2189	1,363.2189	0.1141	0.0000	1,366.0721
2024	0.9033	3.5300	4.5852	0.0148	0.7230	0.0252	0.7482	0.1962	0.0240	0.2202	0.0000	1,354.8605	1,354.8605	0.1129	0.0000	1,357.6831
2025	0.5380	0.6359	1.2092	2.8900e-003	0.1440	5.0600e-003	0.1490	0.0387	4.7800e-003	0.0435	0.0000	259.5059	259.5059	0.0302	0.0000	260.2609
Maximum	0.9239	5.2249	4.7047	0.0149	0.7230	0.0370	0.7482	0.2124	0.0346	0.2470	0.0000	1,363.2189	1,363.2189	0.1560	0.0000	1,366.0721

	ROG	NOx	CO	SO2	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	18.02	76.71	26.03	22.27	76.46	39.93	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	1.2778	1.2778
2	4-1-2021	6-30-2021	1.6394	1.6394
3	7-1-2021	9-30-2021	1.5449	1.5449
4	10-1-2021	12-31-2021	1.2545	1.2545
5	1-1-2022	3-31-2022	1.1298	1.1298
6	4-1-2022	6-30-2022	1.1337	1.1337
7	7-1-2022	9-30-2022	1.2407	1.2407
8	10-1-2022	12-31-2022	1.3342	1.3342
9	1-1-2023	3-31-2023	1.1323	1.1323
10	4-1-2023	6-30-2023	1.1355	1.1355
11	7-1-2023	9-30-2023	1.1480	1.1480
12	10-1-2023	12-31-2023	1.1574	1.1574
13	1-1-2024	3-31-2024	1.0997	1.0997
14	4-1-2024	6-30-2024	1.0908	1.0908
15	7-1-2024	9-30-2024	1.1028	1.1028

16	10-1-2024	12-31-2024	1.1117	1.1117
17	1-1-2025	3-31-2025	0.6206	0.6206
18	4-1-2025	6-30-2025	0.2219	0.2219
19	7-1-2025	9-30-2025	0.1644	0.1644
		Highest	1.6394	1.6394

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	3/25/2021	5	60	
2	Site Preparation	Site Preparation	3/26/2021	5/20/2021	5	40	
3	Grading	Grading	5/21/2021	8/12/2021	5	60	
4	Building Construction	Building Construction	8/13/2021	1/23/2025	5	900	
5	Architectural Coating	Architectural Coating	8/13/2022	12/26/2025	5	880	
6	Paving	Paving	1/24/2025	4/17/2025	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 7.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 436,500; Non-Residential Outdoor: 145,500; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	958.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	1,408.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	378.00	158.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	76.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					0.1037	0.0000	0.1037	0.0157	0.0000	0.0157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0950	0.9432	0.6470	1.1600e-003		0.0465	0.0465		0.0432	0.0432	0.0000	102.0024	102.0024	0.0287	0.0000	102.7201
Total	0.0950	0.9432	0.6470	1.1600e-003	0.1037	0.0465	0.1502	0.0157	0.0432	0.0589	0.0000	102.0024	102.0024	0.0287	0.0000	102.7201

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0300e-003	0.1326	0.0309	3.7000e-004	8.2300e-003	4.0000e-004	8.6300e-003	2.2600e-003	3.8000e-004	2.6400e-003	0.0000	36.5140	36.5140	2.5300e-003	0.0000	36.5774
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	1.9400e-003	1.5100e-003	0.0170	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.4501	4.4501	1.3000e-004	0.0000	4.4534
Total	6.1600e-003	0.1400	0.0496	4.4000e-004	0.0135	4.5000e-004	0.0140	3.6800e-003	4.3000e-004	4.1100e-003	0.0000	42.4431	42.4431	2.7500e-003	0.0000	42.5120

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0443	0.0000	0.0443	6.7100e-003	0.0000	6.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0950	0.9432	0.6470	1.1600e-003		6.9800e-003	6.9800e-003		6.4800e-003	6.4800e-003	0.0000	102.0022	102.0022	0.0287	0.0000	102.7200
Total	0.0950	0.9432	0.6470	1.1600e-003	0.0443	6.9800e-003	0.0513	6.7100e-003	6.4800e-003	0.0132	0.0000	102.0022	102.0022	0.0287	0.0000	102.7200

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0300e-003	0.1326	0.0309	3.7000e-004	7.6800e-003	4.0000e-004	8.0700e-003	2.1200e-003	3.8000e-004	2.5000e-003	0.0000	36.5140	36.5140	2.5300e-003	0.0000	36.5774
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.5000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	1.9400e-003	1.5100e-003	0.0170	5.0000e-005	4.5500e-003	4.0000e-005	4.5900e-003	1.2200e-003	4.0000e-005	1.2500e-003	0.0000	4.4501	4.4501	1.3000e-004	0.0000	4.4534
Total	6.1600e-003	0.1400	0.0496	4.4000e-004	0.0126	4.5000e-004	0.0130	3.4400e-003	4.3000e-004	3.8600e-003	0.0000	42.4431	42.4431	2.7500e-003	0.0000	42.5120

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0778	0.8099	0.4231	7.6000e-004		0.0409	0.0409		0.0376	0.0376	0.0000	66.8714	66.8714	0.0216	0.0000	67.4121
Total	0.0778	0.8099	0.4231	7.6000e-004	0.3613	0.0409	0.4022	0.1986	0.0376	0.2362	0.0000	66.8714	66.8714	0.0216	0.0000	67.4121

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.9500e-003	1.0700e-003	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9860	0.9860	6.0000e-005	0.0000	0.9875
Worker	1.5500e-003	1.2100e-003	0.0136	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.5601	3.5601	1.0000e-004	0.0000	3.5627
Total	1.6700e-003	5.1600e-003	0.0147	5.0000e-005	4.1900e-003	4.0000e-005	4.2400e-003	1.1200e-003	4.0000e-005	1.1600e-003	0.0000	4.5461	4.5461	1.6000e-004	0.0000	4.5502

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					
Fugitive Dust					0.1545	0.0000	0.1545	0.0849	0.0000	0.0849	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0778	0.8099	0.4231	7.6000e-004		6.1300e-003	6.1300e-003		5.6400e-003	5.6400e-003	0.0000	66.8714	66.8714	0.0216	0.0000	67.4120
Total	0.0778	0.8099	0.4231	7.6000e-004	0.1545	6.1300e-003	0.1606	0.0849	5.6400e-003	0.0906	0.0000	66.8714	66.8714	0.0216	0.0000	67.4120

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.9500e-003	1.0700e-003	1.0000e-005	2.4000e-004	1.0000e-005	2.4000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9860	0.9860	6.0000e-005	0.0000	0.9875
Worker	1.5500e-003	1.2100e-003	0.0136	4.0000e-005	3.6400e-003	3.0000e-005	3.6700e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	3.5601	3.5601	1.0000e-004	0.0000	3.5627
Total	1.6700e-003	5.1600e-003	0.0147	5.0000e-005	3.8800e-003	4.0000e-005	3.9100e-003	1.0400e-003	4.0000e-005	1.0800e-003	0.0000	4.5461	4.5461	1.6000e-004	0.0000	4.5502

3.4 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					0.2608	0.0000	0.2608	0.1080	0.0000	0.1080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1257	1.3920	0.9264	1.8600e-003		0.0596	0.0596		0.0548	0.0548	0.0000	163.4849	163.4849	0.0529	0.0000	164.8068
Total	0.1257	1.3920	0.9264	1.8600e-003	0.2608	0.0596	0.3204	0.1080	0.0548	0.1628	0.0000	163.4849	163.4849	0.0529	0.0000	164.8068

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.9300e-003	0.1949	0.0454	5.5000e-004	0.0121	5.8000e-004	0.0127	3.3200e-003	5.6000e-004	3.8800e-003	0.0000	53.6657	53.6657	3.7200e-003	0.0000	53.7588
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.8000e-004	1.0000e-005	3.9000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	2.5800e-003	2.0100e-003	0.0227	7.0000e-005	6.5700e-003	5.0000e-005	6.6300e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	5.9335	5.9335	1.7000e-004	0.0000	5.9379
Total	8.7000e-003	0.2028	0.0697	6.4000e-004	0.0191	6.4000e-004	0.0197	5.1800e-003	6.2000e-004	5.8000e-003	0.0000	61.0781	61.0781	3.9800e-003	0.0000	61.1779

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1115	0.0000	0.1115	0.0462	0.0000	0.0462	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1257	1.3920	0.9264	1.8600e-003		8.9300e-003	8.9300e-003		8.2200e-003	8.2200e-003	0.0000	163.4848	163.4848	0.0529	0.0000	164.8066
Total	0.1257	1.3920	0.9264	1.8600e-003	0.1115	8.9300e-003	0.1204	0.0462	8.2200e-003	0.0544	0.0000	163.4848	163.4848	0.0529	0.0000	164.8066

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.9300e-003	0.1949	0.0454	5.5000e-004	0.0113	5.8000e-004	0.0119	3.1200e-003	5.6000e-004	3.6800e-003	0.0000	53.6657	53.6657	3.7200e-003	0.0000	53.7588
Vendor	1.9000e-004	5.9200e-003	1.6100e-003	2.0000e-005	3.5000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4790	1.4790	9.0000e-005	0.0000	1.4813
Worker	2.5800e-003	2.0100e-003	0.0227	7.0000e-005	6.0600e-003	5.0000e-005	6.1200e-003	1.6200e-003	5.0000e-005	1.6700e-003	0.0000	5.9335	5.9335	1.7000e-004	0.0000	5.9379
Total	8.7000e-003	0.2028	0.0697	6.4000e-004	0.0177	6.4000e-004	0.0184	4.8400e-003	6.2000e-004	5.4600e-003	0.0000	61.0781	61.0781	3.9800e-003	0.0000	61.1779

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9768	116.9768	0.0282	0.0000	117.6824
Total	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9768	116.9768	0.0282	0.0000	117.6824

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0248	0.7874	0.2135	2.0300e-003	0.0503	1.6100e-003	0.0519	0.0145	1.5400e-003	0.0160	0.0000	196.6796	196.6796	0.0121	0.0000	196.9812
Worker	0.0821	0.0639	0.7219	2.0900e-003	0.2092	1.7200e-003	0.2109	0.0556	1.5900e-003	0.0572	0.0000	188.7744	188.7744	5.5500e-003	0.0000	188.9133
Total	0.1069	0.8514	0.9354	4.1200e-003	0.2594	3.3300e-003	0.2628	0.0701	3.1300e-003	0.0732	0.0000	385.4540	385.4540	0.0176	0.0000	385.8945

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0960	0.8803	0.8371	1.3600e-003		0.0104	0.0104		0.0100	0.0100	0.0000	116.9767	116.9767	0.0282	0.0000	117.6822
Total	0.0960	0.8803	0.8371	1.3600e-003		0.0104	0.0104		0.0100	0.0100	0.0000	116.9767	116.9767	0.0282	0.0000	117.6822

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0248	0.7874	0.2135	2.0300e-003	0.0471	1.6100e-003	0.0487	0.0137	1.5400e-003	0.0153	0.0000	196.6796	196.6796	0.0121	0.0000	196.9812
Worker	0.0821	0.0639	0.7219	2.0900e-003	0.1929	1.7200e-003	0.1946	0.0516	1.5900e-003	0.0531	0.0000	188.7744	188.7744	5.5500e-003	0.0000	188.9133
Total	0.1069	0.8514	0.9354	4.1200e-003	0.2399	3.3300e-003	0.2432	0.0653	3.1300e-003	0.0684	0.0000	385.4540	385.4540	0.0176	0.0000	385.8945

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0599	1.9259	0.5200	5.1700e-003	0.1294	3.6100e-003	0.1330	0.0373	3.4600e-003	0.0408	0.0000	501.8570	501.8570	0.0300	0.0000	502.6064
Worker	0.1983	0.1487	1.7122	5.1900e-003	0.5385	4.3000e-003	0.5428	0.1430	3.9600e-003	0.1470	0.0000	468.8717	468.8717	0.0129	0.0000	469.1945
Total	0.2581	2.0745	2.2322	0.0104	0.6679	7.9100e-003	0.6758	0.1804	7.4200e-003	0.1878	0.0000	970.7286	970.7286	0.0429	0.0000	971.8008

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.0228	0.0228		0.0219	0.0219	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	0.2218	2.0300	2.1272	3.5000e-003		0.0228	0.0228		0.0219	0.0219	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0599	1.9259	0.5200	5.1700e-003	0.1211	3.6100e-003	0.1248	0.0353	3.4600e-003	0.0388	0.0000	501.8570	501.8570	0.0300	0.0000	502.6064
Worker	0.1983	0.1487	1.7122	5.1900e-003	0.4965	4.3000e-003	0.5008	0.1327	3.9600e-003	0.1367	0.0000	468.8717	468.8717	0.0129	0.0000	469.1945
Total	0.2581	2.0745	2.2322	0.0104	0.6176	7.9100e-003	0.6255	0.1680	7.4200e-003	0.1755	0.0000	970.7286	970.7286	0.0429	0.0000	971.8008

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0445	1.4550	0.4665	5.0000e-003	0.1294	1.7000e-003	0.1311	0.0373	1.6200e-003	0.0390	0.0000	486.1457	486.1457	0.0265	0.0000	486.8080
Worker	0.1864	0.1345	1.5745	5.0000e-003	0.5385	4.1800e-003	0.5427	0.1430	3.8500e-003	0.1469	0.0000	451.7143	451.7143	0.0116	0.0000	452.0050
Total	0.2309	1.5895	2.0410	0.0100	0.6679	5.8800e-003	0.6737	0.1804	5.4700e-003	0.1858	0.0000	937.8600	937.8600	0.0381	0.0000	938.8130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0197	0.0197		0.0189	0.0189	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0197	0.0197		0.0189	0.0189	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0445	1.4550	0.4665	5.0000e-003	0.1212	1.7000e-003	0.1229	0.0353	1.6200e-003	0.0369	0.0000	486.1457	486.1457	0.0265	0.0000	486.8080
Worker	0.1864	0.1345	1.5745	5.0000e-003	0.4965	4.1800e-003	0.5007	0.1327	3.8500e-003	0.1366	0.0000	451.7143	451.7143	0.0116	0.0000	452.0050
Total	0.2309	1.5895	2.0410	0.0100	0.6176	5.8800e-003	0.6235	0.1680	5.4700e-003	0.1735	0.0000	937.8600	937.8600	0.0381	0.0000	938.8130

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0437	1.4607	0.4557	5.0200e-003	0.1304	1.6900e-003	0.1321	0.0376	1.6100e-003	0.0392	0.0000	487.9337	487.9337	0.0263	0.0000	488.5912
Worker	0.1779	0.1236	1.4775	4.8800e-003	0.5426	4.1500e-003	0.5468	0.1441	3.8200e-003	0.1479	0.0000	441.0754	441.0754	0.0107	0.0000	441.3439
Total	0.2216	1.5843	1.9332	9.9000e-003	0.6730	5.8400e-003	0.6788	0.1818	5.4300e-003	0.1872	0.0000	929.0091	929.0091	0.0370	0.0000	929.9351

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0173	0.0173		0.0166	0.0166	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0173	0.0173		0.0166	0.0166	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0437	1.4607	0.4557	5.0200e-003	0.1221	1.6900e-003	0.1238	0.0356	1.6100e-003	0.0372	0.0000	487.9337	487.9337	0.0263	0.0000	488.5912
Worker	0.1779	0.1236	1.4775	4.8800e-003	0.5003	4.1500e-003	0.5044	0.1337	3.8200e-003	0.1376	0.0000	441.0754	441.0754	0.0107	0.0000	441.3439
Total	0.2216	1.5843	1.9332	9.9000e-003	0.6224	5.8400e-003	0.6282	0.1693	5.4300e-003	0.1748	0.0000	929.0091	929.0091	0.0370	0.0000	929.9351

3.5 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	0.0116	0.1060	0.1367	2.3000e-004		4.4800e-003	4.4800e-003		4.2200e-003	4.2200e-003	0.0000	19.7132	19.7132	4.6300e-003	0.0000	19.8290
Total	0.0116	0.1060	0.1367	2.3000e-004		4.4800e-003	4.4800e-003		4.2200e-003	4.2200e-003	0.0000	19.7132	19.7132	4.6300e-003	0.0000	19.8290

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7600e-003	0.0940	0.0288	3.2000e-004	8.4600e-003	1.1000e-004	8.5700e-003	2.4400e-003	1.0000e-004	2.5400e-003	0.0000	31.4873	31.4873	1.6800e-003	0.0000	31.5294
Worker	0.0110	7.3400e-003	0.0890	3.0000e-004	0.0352	2.6000e-004	0.0355	9.3500e-003	2.4000e-004	9.5900e-003	0.0000	27.5112	27.5112	6.4000e-004	0.0000	27.5271
Total	0.0137	0.1013	0.1178	6.2000e-004	0.0437	3.7000e-004	0.0440	0.0118	3.4000e-004	0.0121	0.0000	58.9985	58.9985	2.3200e-003	0.0000	59.0565

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0116	0.1060	0.1367	2.3000e-004		9.7000e-004	9.7000e-004		9.3000e-004	9.3000e-004	0.0000	19.7131	19.7131	4.6300e-003	0.0000	19.8290
Total	0.0116	0.1060	0.1367	2.3000e-004		9.7000e-004	9.7000e-004		9.3000e-004	9.3000e-004	0.0000	19.7131	19.7131	4.6300e-003	0.0000	19.8290

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7600e-003	0.0940	0.0288	3.2000e-004	7.9200e-003	1.1000e-004	8.0300e-003	2.3100e-003	1.0000e-004	2.4100e-003	0.0000	31.4873	31.4873	1.6800e-003	0.0000	31.5294
Worker	0.0110	7.3400e-003	0.0890	3.0000e-004	0.0325	2.6000e-004	0.0327	8.6800e-003	2.4000e-004	8.9200e-003	0.0000	27.5112	27.5112	6.4000e-004	0.0000	27.5271
Total	0.0137	0.1013	0.1178	6.2000e-004	0.0404	3.7000e-004	0.0408	0.0110	3.4000e-004	0.0113	0.0000	58.9985	58.9985	2.3200e-003	0.0000	59.0565

3.6 Architectural Coating - 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					
Archit. Coating	0.1639					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0704	0.0907	1.5000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7871
Total	0.1741	0.0704	0.0907	1.5000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7871

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0153	0.0115	0.1324	4.0000e-004	0.0416	3.3000e-004	0.0420	0.0111	3.1000e-004	0.0114	0.0000	36.2579	36.2579	1.0000e-003	0.0000	36.2829
Total	0.0153	0.0115	0.1324	4.0000e-004	0.0416	3.3000e-004	0.0420	0.0111	3.1000e-004	0.0114	0.0000	36.2579	36.2579	1.0000e-003	0.0000	36.2829

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1639					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0704	0.0907	1.5000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7870
Total	0.1741	0.0704	0.0907	1.5000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	12.7663	12.7663	8.3000e-004	0.0000	12.7870

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0153	0.0115	0.1324	4.0000e-004	0.0384	3.3000e-004	0.0387	0.0103	3.1000e-004	0.0106	0.0000	36.2579	36.2579	1.0000e-003	0.0000	36.2829
Total	0.0153	0.0115	0.1324	4.0000e-004	0.0384	3.3000e-004	0.0387	0.0103	3.1000e-004	0.0106	0.0000	36.2579	36.2579	1.0000e-003	0.0000	36.2829

3.6 Architectural Coating - 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					
Archit. Coating	0.4262					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	0.4511	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0375	0.0270	0.3166	1.0000e-003	0.1083	8.4000e-004	0.1091	0.0288	7.7000e-004	0.0295	0.0000	90.8209	90.8209	2.3400e-003	0.0000	90.8793
Total	0.0375	0.0270	0.3166	1.0000e-003	0.1083	8.4000e-004	0.1091	0.0288	7.7000e-004	0.0295	0.0000	90.8209	90.8209	2.3400e-003	0.0000	90.8793

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4262					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	0.4511	0.1694	0.2354	3.9000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0375	0.0270	0.3166	1.0000e-003	0.0998	8.4000e-004	0.1007	0.0267	7.7000e-004	0.0275	0.0000	90.8209	90.8209	2.3400e-003	0.0000	90.8793
Total	0.0375	0.0270	0.3166	1.0000e-003	0.0998	8.4000e-004	0.1007	0.0267	7.7000e-004	0.0275	0.0000	90.8209	90.8209	2.3400e-003	0.0000	90.8793

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	0.4531	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0358	0.0249	0.2971	9.8000e-004	0.1091	8.3000e-004	0.1099	0.0290	7.7000e-004	0.0297	0.0000	88.6818	88.6818	2.1600e-003	0.0000	88.7358
Total	0.0358	0.0249	0.2971	9.8000e-004	0.1091	8.3000e-004	0.1099	0.0290	7.7000e-004	0.0297	0.0000	88.6818	88.6818	2.1600e-003	0.0000	88.7358

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	0.4531	0.1597	0.2371	3.9000e-004		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0358	0.0249	0.2971	9.8000e-004	0.1006	8.3000e-004	0.1014	0.0269	7.7000e-004	0.0277	0.0000	88.6818	88.6818	2.1600e-003	0.0000	88.7358
Total	0.0358	0.0249	0.2971	9.8000e-004	0.1006	8.3000e-004	0.1014	0.0269	7.7000e-004	0.0277	0.0000	88.6818	88.6818	2.1600e-003	0.0000	88.7358

3.6 Architectural Coating - 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					
Archit. Coating	0.4229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0220	0.1478	0.2334	3.8000e-004		6.6400e-003	6.6400e-003		6.6400e-003	6.6400e-003	0.0000	32.9370	32.9370	1.8000e-003	0.0000	32.9819
Total	0.4449	0.1478	0.2334	3.8000e-004		6.6400e-003	6.6400e-003		6.6400e-003	6.6400e-003	0.0000	32.9370	32.9370	1.8000e-003	0.0000	32.9819

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0335	0.0224	0.2715	9.3000e-004	0.1074	8.0000e-004	0.1082	0.0285	7.4000e-004	0.0293	0.0000	83.9465	83.9465	1.9400e-003	0.0000	83.9949
Total	0.0335	0.0224	0.2715	9.3000e-004	0.1074	8.0000e-004	0.1082	0.0285	7.4000e-004	0.0293	0.0000	83.9465	83.9465	1.9400e-003	0.0000	83.9949

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0220	0.1478	0.2334	3.8000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	32.9369	32.9369	1.8000e-003	0.0000	32.9819
Total	0.4449	0.1478	0.2334	3.8000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	32.9369	32.9369	1.8000e-003	0.0000	32.9819

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0335	0.0224	0.2715	9.3000e-004	0.0991	8.0000e-004	0.0999	0.0265	7.4000e-004	0.0272	0.0000	83.9465	83.9465	1.9400e-003	0.0000	83.9949
Total	0.0335	0.0224	0.2715	9.3000e-004	0.0991	8.0000e-004	0.0999	0.0265	7.4000e-004	0.0272	0.0000	83.9465	83.9465	1.9400e-003	0.0000	83.9949

3.7 Paving - 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	0.0275	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0578	60.0578	0.0194	0.0000	60.5434
Paving	5.2000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0327	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0578	60.0578	0.0194	0.0000	60.5434

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.0300e-003	0.0125	4.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.8531	3.8531	9.0000e-005	0.0000	3.8553
Total	1.5400e-003	1.0300e-003	0.0125	4.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.8531	3.8531	9.0000e-005	0.0000	3.8553

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0275	0.2575	0.4373	6.8000e-004		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	60.0577	60.0577	0.0194	0.0000	60.5433
Paving	5.2000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0327	0.2575	0.4373	6.8000e-004		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	60.0577	60.0577	0.0194	0.0000	60.5433

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5400e-003	1.0300e-003	0.0125	4.0000e-005	4.5500e-003	4.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.8531	3.8531	9.0000e-005	0.0000	3.8553
Total	1.5400e-003	1.0300e-003	0.0125	4.0000e-005	4.5500e-003	4.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.8531	3.8531	9.0000e-005	0.0000	3.8553

Phase 2 Construction _Mit_Level 3 DPF - Los Angeles-South Coast County, Summary Report

**Phase 2 Construction _Mit_Level 3 DPF
Los Angeles-South Coast, Summary Report**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	210.00	1000sqft	17.01	210,000.00	0
Research & Development	61.00	1000sqft	0.70	61,000.00	0
General Light Industry	20.00	1000sqft	0.93	20,000.00	0
Enclosed Parking with Elevator	1,250.00	Space	3.71	500,000.00	0
Parking Lot	3.97	Acre	3.97	172,900.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2023

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes one water truck and two trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186 and Mitigation Measure AQ-2 requiring Level 3 DPF.

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
lb/day													
2021	Demolition	3.3793 W	36.0188 W	23.2384 W	0.0535 S	5.4817 W	2.1034 W	3.3793 W	36.0188 W	23.2384 W	0.0535 S	2.1518 W	0.5708 W
2021	Site Preparation	3.9804 W	40.7496 W	21.9300 S	0.0406 S	20.3268 W	11.8705 W	3.9804 W	40.7496 W	21.9300 S	0.0406 S	8.2295 W	4.5824 W
2021	Grading	4.4933 W	53.0307 W	33.2362 W	0.0831 S	11.3484 W	5.6225 W	4.4933 W	53.0307 W	33.2362 W	0.0831 S	4.6370 W	1.9978 W
2021	Building Construction	4.2075 W	33.9734 W	35.8104 S	0.1108 S	6.2618 W	2.3755 W	4.2075 W	33.9734 W	35.8104 S	0.1108 S	5.1145 W	1.5753 W
2022	Building Construction	3.8724 W	31.2775 W	34.2044 S	0.1089 S	6.1071 W	2.2305 W	3.8724 W	31.2775 W	34.2044 S	0.1089 S	5.0783 W	1.5407 W
2023	Building Construction	3.5192 W	26.4106 W	32.6064 S	0.1060 S	5.9820 W	2.1127 W	3.5192 W	26.4106 W	32.6064 S	0.1060 S	5.0387 W	1.5028 W
2024	Building Construction	3.3279 W	25.3410 W	31.5482 S	0.1046 S	5.8950 W	2.0305 W	3.3279 W	25.3410 W	31.5482 S	0.1046 S	5.0185 W	1.4834 W
2025	Building Construction	3.1432 W	24.1957 W	30.5218 S	0.1028 S	5.8083 W	1.9490 W	3.1432 W	24.1957 W	30.5218 S	0.1028 S	4.9992 W	1.4649 W
2022	Architectural Coating	3.8230 W	1.6323 W	4.6378 S	0.0114 S	0.9379 S	0.3131 S	3.8230 W	1.6323 W	4.6378 S	0.0114 S	0.8019 S	0.2274 S
2023	Architectural Coating	3.7904 W	1.5055 W	4.4119 S	0.0110 S	0.9268 S	0.3021 S	3.7904 W	1.5055 W	4.4119 S	0.0110 S	0.8001 S	0.2256 S
2024	Architectural Coating	3.7631 W	1.4034 W	4.2347 S	0.0108 S	0.9168 S	0.2921 S	3.7631 W	1.4034 W	4.2347 S	0.0108 S	0.7985 S	0.2240 S
2025	Architectural Coating	3.7388 W	1.3144 W	4.0610 S	0.0105 S	0.9073 S	0.2825 S	3.7388 W	1.3144 W	4.0610 S	0.0105 S	0.7970 S	0.2225 S
2025	Paving	1.1457 W	8.6150 W	15.0224 S	0.0243 S	0.5874 S	0.4306 S	1.1457 W	8.6150 W	15.0224 S	0.0243 S	0.2186 S	0.1001 S
	Peak Daily Total	4.4933 W	53.0307 W	35.8104 S	0.1108 S	20.3268 W	11.8705 W	4.4933 W	53.0307 W	35.8104 S	0.1108 S	8.2295 W	4.5824 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2021	942.8569	0.1560	0.0000	946.7559	942.8563	0.1560	0.0000	946.7554
Construction	2022	1,320.9956	0.1169	0.0000	1,323.9179	1,320.9952	0.1169	0.0000	1,323.9175
Construction	2023	1,363.2193	0.1141	0.0000	1,366.0724	1,363.2189	0.1141	0.0000	1,366.0720
Construction	2024	1,354.8609	0.1129	0.0000	1,357.6836	1,354.8605	0.1129	0.0000	1,357.6832
Construction	2025	259.5060	0.0302	0.0000	260.2610	259.5059	0.0302	0.0000	260.2609
	Total								
	Significance Threshold								
	Exceed Significance?								

Phase 2 Construction _Mit_Level 3 DPF
Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.77	0.78	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.73	0.73	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	1	1	Level 3	0.00
Concrete/Industrial Saws	Diesel	No Change	1	1	Level 3	0.00
Cranes	Diesel	No Change	1	1	Level 3	0.00
Excavators	Diesel	No Change	5	5	Level 3	0.00
Forklifts	Diesel	No Change	3	3	Level 3	0.00
Generator Sets	Diesel	No Change	1	1	Level 3	0.00
Graders	Diesel	No Change	1	1	Level 3	0.00
Pavers	Diesel	No Change	2	2	Level 3	0.00
Paving Equipment	Diesel	No Change	2	2	Level 3	0.00

Rollers	Diesel	No Change		2	2	Level 3	0.00
Rubber Tired Dozers	Diesel	No Change		6	6	Level 3	0.00
Scrapers	Diesel	No Change		2	2	Level 3	0.00
Tractors/Loaders/Backhoes	Diesel	No Change		9	9	Level 3	0.00
Welders	Diesel	No Change		0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	8.08600E-002	5.47250E-001	7.96630E-001	1.31000E-003	2.79200E-002	2.79200E-002	0.00000E+000	1.12343E+002	1.12343E+002	6.50000E-003	0.00000E+000	1.12506E+002
Concrete/Industrial Saws	1.15400E-002	9.11400E-002	1.10220E-001	1.90000E-004	5.19000E-003	5.19000E-003	0.00000E+000	1.61297E+001	1.61297E+001	9.40000E-004	0.00000E+000	1.61531E+001
Cranes	1.41000E-001	1.54950E+000	7.27880E-001	2.27000E-003	6.43000E-002	5.91600E-002	0.00000E+000	1.99609E+002	1.99609E+002	6.45600E-002	0.00000E+000	2.01223E+002
Excavators	3.43800E-002	3.23010E-001	4.90770E-001	7.80000E-004	1.56700E-002	1.44100E-002	0.00000E+000	6.80650E+001	6.80650E+001	2.20100E-002	0.00000E+000	6.86153E+001
Forklifts	1.43120E-001	1.33242E+000	1.55002E+000	2.06000E-003	8.42300E-002	7.74900E-002	0.00000E+000	1.81293E+002	1.81293E+002	5.86300E-002	0.00000E+000	1.82759E+002
Generator Sets	1.40320E-001	1.24729E+000	1.65204E+000	2.96000E-003	5.95600E-002	5.95600E-002	0.00000E+000	2.54343E+002	2.54343E+002	1.13500E-002	0.00000E+000	2.54627E+002
Graders	1.35900E-002	1.77740E-001	5.30200E-002	2.00000E-004	5.63000E-003	5.18000E-003	0.00000E+000	1.74638E+001	1.74638E+001	5.65000E-003	0.00000E+000	1.76050E+001
Pavers	1.04300E-002	9.49900E-002	1.73750E-001	2.80000E-004	4.45000E-003	4.09000E-003	0.00000E+000	2.47658E+001	2.47658E+001	8.01000E-003	0.00000E+000	2.49660E+001
Paving Equipment	8.81000E-003	7.58800E-002	1.52790E-001	2.40000E-004	3.75000E-003	3.45000E-003	0.00000E+000	2.14631E+001	2.14631E+001	6.94000E-003	0.00000E+000	2.16367E+001
Rollers	8.22000E-003	8.65800E-002	1.10800E-001	1.60000E-004	4.35000E-003	4.01000E-003	0.00000E+000	1.38289E+001	1.38289E+001	4.47000E-003	0.00000E+000	1.39407E+001
Rubber Tired Dozers	1.56950E-001	1.64569E+000	6.05670E-001	1.28000E-003	7.98700E-002	7.34800E-002	0.00000E+000	1.12584E+002	1.12584E+002	3.64100E-002	0.00000E+000	1.13494E+002
Scrapers	5.57700E-002	6.42170E-001	4.20280E-001	9.10000E-004	2.49800E-002	2.29800E-002	0.00000E+000	7.99000E+001	7.99000E+001	2.58400E-002	0.00000E+000	8.05461E+001
Tractors/Loaders/Backhoes	2.11340E-001	2.14039E+000	2.95971E+000	4.11000E-003	1.11150E-001	1.02260E-001	0.00000E+000	3.61272E+002	3.61272E+002	1.16840E-001	0.00000E+000	3.64193E+002
Welders	1.17100E-001	6.43330E-001	7.57370E-001	1.15000E-003	2.57800E-002	2.57800E-002	0.00000E+000	8.46993E+001	8.46993E+001	9.50000E-003	0.00000E+000	8.49369E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	8.08600E-002	5.47250E-001	7.96630E-001	1.31000E-003	4.19000E-003	4.19000E-003	0.00000E+000	1.12343E+002	1.12343E+002	6.50000E-003	0.00000E+000	1.12505E+002
Concrete/Industrial Saws	1.15400E-002	9.11400E-002	1.10220E-001	1.90000E-004	7.80000E-004	7.80000E-004	0.00000E+000	1.61297E+001	1.61297E+001	9.40000E-004	0.00000E+000	1.61531E+001
Cranes	1.41000E-001	1.54950E+000	7.27880E-001	2.27000E-003	9.65000E-003	8.87000E-003	0.00000E+000	1.99609E+002	1.99609E+002	6.45600E-002	0.00000E+000	2.01223E+002

Excavators	3.43800E-002	3.23010E-001	4.90770E-001	7.80000E-004	2.35000E-003	2.16000E-003	0.00000E+000	6.80649E+001	6.80649E+001	2.20100E-002	0.00000E+000	6.86152E+001
Forklifts	1.43120E-001	1.33242E+000	1.55001E+000	2.06000E-003	1.26300E-002	1.16200E-002	0.00000E+000	1.81293E+002	1.81293E+002	5.86300E-002	0.00000E+000	1.82759E+002
Generator Sets	1.40320E-001	1.24728E+000	1.65204E+000	2.96000E-003	8.93000E-003	8.93000E-003	0.00000E+000	2.54343E+002	2.54343E+002	1.13500E-002	0.00000E+000	2.54627E+002
Graders	1.35900E-002	1.77740E-001	5.30200E-002	2.00000E-004	8.40000E-004	7.80000E-004	0.00000E+000	1.74638E+001	1.74638E+001	5.65000E-003	0.00000E+000	1.76050E+001
Pavers	1.04300E-002	9.49900E-002	1.73750E-001	2.80000E-004	6.70000E-004	6.10000E-004	0.00000E+000	2.47658E+001	2.47658E+001	8.01000E-003	0.00000E+000	2.49660E+001
Paving Equipment	8.81000E-003	7.58800E-002	1.52790E-001	2.40000E-004	5.60000E-004	5.20000E-004	0.00000E+000	2.14631E+001	2.14631E+001	6.94000E-003	0.00000E+000	2.16366E+001
Rollers	8.22000E-003	8.65800E-002	1.10800E-001	1.60000E-004	6.50000E-004	6.00000E-004	0.00000E+000	1.38289E+001	1.38289E+001	4.47000E-003	0.00000E+000	1.39407E+001
Rubber Tired Dozers	1.56950E-001	1.64569E+000	6.05670E-001	1.28000E-003	1.19800E-002	1.10200E-002	0.00000E+000	1.12584E+002	1.12584E+002	3.64100E-002	0.00000E+000	1.13494E+002
Scrapers	5.57700E-002	6.42170E-001	4.20280E-001	9.10000E-004	3.75000E-003	3.45000E-003	0.00000E+000	7.98999E+001	7.98999E+001	2.58400E-002	0.00000E+000	8.05460E+001
Tractors/Loaders/Bac khoes	2.11340E-001	2.14039E+000	2.95970E+000	4.11000E-003	1.66700E-002	1.53400E-002	0.00000E+000	3.61272E+002	3.61272E+002	1.16840E-001	0.00000E+000	3.64193E+002
Welders	1.17100E-001	6.43330E-001	7.57370E-001	1.15000E-003	2.57800E-002	2.57800E-002	0.00000E+000	8.46992E+001	8.46992E+001	9.50000E-003	0.00000E+000	8.49368E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49928E-001	8.49928E-001	0.00000E+000	1.15717E-006	1.15717E-006	0.00000E+000	0.00000E+000	1.15550E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49711E-001	8.49711E-001	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23815E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49922E-001	8.50068E-001	0.00000E+000	1.15225E-006	1.15225E-006	0.00000E+000	0.00000E+000	1.19271E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50032E-001	8.50104E-001	0.00000E+000	1.17535E-006	1.17535E-006	0.00000E+000	0.00000E+000	1.16592E-006
Forklifts	0.00000E+000	0.00000E+000	6.45153E-006	0.00000E+000	8.50053E-001	8.50045E-001	0.00000E+000	1.21350E-006	1.21350E-006	0.00000E+000	0.00000E+000	1.20377E-006
Generator Sets	0.00000E+000	8.01738E-006	0.00000E+000	0.00000E+000	8.50067E-001	8.50067E-001	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17819E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50799E-001	8.49421E-001	0.00000E+000	1.14523E-006	1.14523E-006	0.00000E+000	0.00000E+000	1.13604E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49438E-001	8.50856E-001	0.00000E+000	1.21135E-006	1.21135E-006	0.00000E+000	0.00000E+000	1.20163E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50667E-001	8.49275E-001	0.00000E+000	9.31831E-007	9.31831E-007	0.00000E+000	0.00000E+000	9.24357E-007
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50575E-001	8.50374E-001	0.00000E+000	1.44625E-006	1.44625E-006	0.00000E+000	0.00000E+000	1.43465E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50006E-001	8.50027E-001	0.00000E+000	1.15469E-006	1.15469E-006	0.00000E+000	0.00000E+000	1.14543E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49880E-001	8.49869E-001	0.00000E+000	1.25156E-006	1.25156E-006	0.00000E+000	0.00000E+000	1.24153E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	3.37871E-006	0.00000E+000	8.50022E-001	8.49990E-001	0.00000E+000	1.19024E-006	1.19024E-006	0.00000E+000	0.00000E+000	1.18069E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17735E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.37	0.10	0.34	0.09	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	2.31	0.62	2.14	0.58	0.08	0.07
Demolition	Fugitive Dust	0.10	0.02	0.04	0.01	0.57	0.57
Demolition	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Grading	Fugitive Dust	0.26	0.11	0.11	0.05	0.57	0.57
Grading	Roads	0.02	0.01	0.02	0.00	0.07	0.07
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Site Preparation	Fugitive Dust	0.36	0.20	0.15	0.08	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.07

CalEEMod Output: Construction – Phase 3 Mitigated

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Phase 3 Construction-Mitigated-Level 3 DPF - Los Angeles-South Coast County, Annual

Phase 3 Construction-Mitigated-Level 3 DPF
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	180.00	1000sqft	4.53	180,000.00	0
Medical Office Building	70.00	1000sqft	1.61	70,000.00	0
General Heavy Industry	10.00	1000sqft	0.23	10,000.00	0
General Light Industry	30.00	1000sqft	0.69	30,000.00	0
Parking Lot	1.30	Acre	1.30	56,700.00	0
Hotel	52.00	Room	1.72	75,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes one water truck and two trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstructionPhase	NumDays	20.00	880.00
tblConstructionPhase	NumDays	300.00	900.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	10.00	40.00
tblFleetMix	FleetMixLandUseSubType	Hospital	General Heavy Industry
tblFleetMix	FleetMixLandUseSubType	Medical Office Building	General Light Industry
tblFleetMix	FleetMixLandUseSubType	General Heavy Industry	Hospital
tblFleetMix	FleetMixLandUseSubType	General Light Industry	Hotel
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Medical Office Building
tblFleetMix	FleetMixLandUseSubType	Hotel	Parking Lot
tblGrading	MaterialExported	0.00	1,130.00
tblLandUse	BuildingSpaceSquareFeet	56,628.00	56,700.00
tblLandUse	BuildingSpaceSquareFeet	75,504.00	75,000.00
tblLandUse	LandUseSquareFeet	56,628.00	56,700.00
tblLandUse	LandUseSquareFeet	75,504.00	75,000.00
tblLandUse	LotAcreage	4.13	4.53
tblLandUse	LotAcreage	1.73	1.72
tblProjectCharacteristics	OperationalYear	2018	2028

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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					
2026	0.3077	2.8955	2.8821	7.1900e-003	0.8370	0.1090	0.9460	0.3546	0.1011	0.4557	0.0000	642.5698	642.5698	0.1389	0.0000	646.0427
2027	0.4664	2.3449	2.8942	7.7000e-003	0.2907	0.0737	0.3644	0.0785	0.0695	0.1480	0.0000	695.4008	695.4008	0.0863	0.0000	697.5594
2028	0.7896	2.4236	3.0491	8.0500e-003	0.3158	0.0776	0.3934	0.0852	0.0734	0.1585	0.0000	725.8441	725.8441	0.0871	0.0000	728.0207
2029	0.7881	2.4247	3.0244	8.0200e-003	0.3170	0.0778	0.3948	0.0855	0.0735	0.1590	0.0000	722.9251	722.9251	0.0870	0.0000	725.0992
2030	0.5853	0.4393	0.9690	2.0800e-003	0.0652	0.0142	0.0794	0.0174	0.0142	0.0316	0.0000	182.4230	182.4230	7.0300e-003	0.0000	182.5987
Maximum	0.7896	2.8955	3.0491	8.0500e-003	0.8370	0.1090	0.9460	0.3546	0.1011	0.4557	0.0000	725.8441	725.8441	0.1389	0.0000	728.0207

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
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Year	tons/yr										MT/yr					
2026	0.3077	2.8955	2.8821	7.1900e-003	0.4227	0.0191	0.4418	0.1694	0.0178	0.1872	0.0000	642.5693	642.5693	0.1389	0.0000	646.0421
2027	0.4664	2.3449	2.8942	7.7000e-003	0.2688	0.0175	0.2864	0.0732	0.0168	0.0899	0.0000	695.4004	695.4004	0.0863	0.0000	697.5590
2028	0.7896	2.4236	3.0491	8.0500e-003	0.2920	0.0181	0.3101	0.0793	0.0174	0.0967	0.0000	725.8437	725.8437	0.0871	0.0000	728.0203
2029	0.7881	2.4247	3.0244	8.0200e-003	0.2931	0.0181	0.3112	0.0796	0.0173	0.0969	0.0000	722.9247	722.9247	0.0870	0.0000	725.0988
2030	0.5853	0.4393	0.9690	2.0800e-003	0.0602	2.5700e-003	0.0627	0.0162	2.5400e-003	0.0187	0.0000	182.4229	182.4229	7.0300e-003	0.0000	182.5986
Maximum	0.7896	2.8955	3.0491	8.0500e-003	0.4227	0.0191	0.4418	0.1694	0.0178	0.1872	0.0000	725.8437	725.8437	0.1389	0.0000	728.0203

	ROG	NOx	CO	SO2	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	26.78	78.60	35.16	32.77	78.35	48.63	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2026	3-31-2026	0.7701	0.7701
2	4-1-2026	6-30-2026	0.9597	0.9597
3	7-1-2026	9-30-2026	0.8241	0.8241
4	10-1-2026	12-31-2026	0.6425	0.6425
5	1-1-2027	3-31-2027	0.6256	0.6256
6	4-1-2027	6-30-2027	0.6300	0.6300
7	7-1-2027	9-30-2027	0.7301	0.7301
8	10-1-2027	12-31-2027	0.8149	0.8149
9	1-1-2028	3-31-2028	0.8030	0.8030
10	4-1-2028	6-30-2028	0.8001	0.8001
11	7-1-2028	9-30-2028	0.8089	0.8089
12	10-1-2028	12-31-2028	0.8118	0.8118
13	1-1-2029	3-31-2029	0.7910	0.7910

14	4-1-2029	6-30-2029	0.7971	0.7971
15	7-1-2029	9-30-2029	0.8058	0.8058
16	10-1-2029	12-31-2029	0.8086	0.8086
17	1-1-2030	3-31-2030	0.4865	0.4865
18	4-1-2030	6-30-2030	0.2138	0.2138
19	7-1-2030	9-30-2030	0.1632	0.1632
		Highest	0.9597	0.9597

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2026	3/25/2026	5	60	
2	Site Preparation	Site Preparation	3/26/2026	5/20/2026	5	40	
3	Grading	Grading	5/21/2026	8/12/2026	5	60	
4	Building Construction	Building Construction	8/13/2026	1/23/2030	5	900	
5	Architectural Coating	Architectural Coating	8/13/2027	12/26/2030	5	880	
6	Paving	Paving	1/24/2030	4/17/2030	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 1.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 547,500; Non-Residential Outdoor: 182,500; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	785.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Grading	8	20.00	2.00	141.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	152.00	69.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					0.0849	0.0000	0.0849	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0628	0.5759	0.5826	1.1700e-003		0.0256	0.0256		0.0238	0.0238	0.0000	101.9930	101.9930	0.0285	0.0000	102.7049
Total	0.0628	0.5759	0.5826	1.1700e-003	0.0849	0.0256	0.1105	0.0129	0.0238	0.0366	0.0000	101.9930	101.9930	0.0285	0.0000	102.7049

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0400e-003	0.0638	0.0233	2.8000e-004	6.7500e-003	1.1000e-004	6.8600e-003	1.8500e-003	1.1000e-004	1.9600e-003	0.0000	27.8995	27.8995	1.8900e-003	0.0000	27.9467
Vendor	1.2000e-004	4.1600e-003	1.2600e-003	1.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3993	1.3993	7.0000e-005	0.0000	1.4012
Worker	1.4700e-003	9.5000e-004	0.0116	4.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.7193	3.7193	8.0000e-005	0.0000	3.7213
Total	3.6300e-003	0.0689	0.0362	3.3000e-004	0.0121	1.5000e-004	0.0122	3.2700e-003	1.4000e-004	3.4100e-003	0.0000	33.0181	33.0181	2.0400e-003	0.0000	33.0692

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0363	0.0000	0.0363	5.5000e-003	0.0000	5.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0628	0.5759	0.5826	1.1700e-003		3.8400e-003	3.8400e-003		3.5600e-003	3.5600e-003	0.0000	101.9928	101.9928	0.0285	0.0000	102.7048
Total	0.0628	0.5759	0.5826	1.1700e-003	0.0363	3.8400e-003	0.0401	5.5000e-003	3.5600e-003	9.0600e-003	0.0000	101.9928	101.9928	0.0285	0.0000	102.7048

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0400e-003	0.0638	0.0233	2.8000e-004	6.2900e-003	1.1000e-004	6.4000e-003	1.7400e-003	1.1000e-004	1.8500e-003	0.0000	27.8995	27.8995	1.8900e-003	0.0000	27.9467
Vendor	1.2000e-004	4.1600e-003	1.2600e-003	1.0000e-005	3.5000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3993	1.3993	7.0000e-005	0.0000	1.4012
Worker	1.4700e-003	9.5000e-004	0.0116	4.0000e-005	4.5500e-003	4.0000e-005	4.5800e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.7193	3.7193	8.0000e-005	0.0000	3.7213
Total	3.6300e-003	0.0689	0.0362	3.3000e-004	0.0112	1.5000e-004	0.0113	3.0600e-003	1.4000e-004	3.2100e-003	0.0000	33.0181	33.0181	2.0400e-003	0.0000	33.0692

3.3 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	tons/yr										MT/yr					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0495	0.5047	0.3582	7.6000e-004		0.0217	0.0217		0.0200	0.0200	0.0000	66.9340	66.9340	0.0217	0.0000	67.4752
Total	0.0495	0.5047	0.3582	7.6000e-004	0.3613	0.0217	0.3831	0.1986	0.0200	0.2186	0.0000	66.9340	66.9340	0.0217	0.0000	67.4752

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-005	2.7700e-003	8.4000e-004	1.0000e-005	2.5000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.9329	0.9329	5.0000e-005	0.0000	0.9341
Worker	1.1800e-003	7.6000e-004	9.3200e-003	3.0000e-005	3.9400e-003	3.0000e-005	3.9700e-003	1.0500e-003	3.0000e-005	1.0700e-003	0.0000	2.9754	2.9754	7.0000e-005	0.0000	2.9771
Total	1.2600e-003	3.5300e-003	0.0102	4.0000e-005	4.1900e-003	3.0000e-005	4.2300e-003	1.1200e-003	3.0000e-005	1.1500e-003	0.0000	3.9083	3.9083	1.2000e-004	0.0000	3.9112

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1545	0.0000	0.1545	0.0849	0.0000	0.0849	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0495	0.5047	0.3582	7.6000e-004		3.2600e-003	3.2600e-003		3.0000e-003	3.0000e-003	0.0000	66.9339	66.9339	0.0217	0.0000	67.4751
Total	0.0495	0.5047	0.3582	7.6000e-004	0.1545	3.2600e-003	0.1577	0.0849	3.0000e-003	0.0879	0.0000	66.9339	66.9339	0.0217	0.0000	67.4751

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-005	2.7700e-003	8.4000e-004	1.0000e-005	2.4000e-004	0.0000	2.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.9329	0.9329	5.0000e-005	0.0000	0.9341
Worker	1.1800e-003	7.6000e-004	9.3200e-003	3.0000e-005	3.6400e-003	3.0000e-005	3.6700e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	2.9754	2.9754	7.0000e-005	0.0000	2.9771
Total	1.2600e-003	3.5300e-003	0.0102	4.0000e-005	3.8800e-003	3.0000e-005	3.9100e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.9083	3.9083	1.2000e-004	0.0000	3.9112

3.4 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					0.2603	0.0000	0.2603	0.1079	0.0000	0.1079	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0870	0.8383	0.7899	1.8600e-003		0.0339	0.0339		0.0312	0.0312	0.0000	163.5186	163.5186	0.0529	0.0000	164.8408
Total	0.0870	0.8383	0.7899	1.8600e-003	0.2603	0.0339	0.2942	0.1079	0.0312	0.1391	0.0000	163.5186	163.5186	0.0529	0.0000	164.8408

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.7000e-004	0.0115	4.1800e-003	5.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.3000e-004	2.0000e-005	3.5000e-004	0.0000	5.0113	5.0113	3.4000e-004	0.0000	5.0197
Vendor	1.2000e-004	4.1600e-003	1.2600e-003	1.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3993	1.3993	7.0000e-005	0.0000	1.4012
Worker	1.9600e-003	1.2600e-003	0.0155	5.0000e-005	6.5700e-003	5.0000e-005	6.6200e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	4.9590	4.9590	1.1000e-004	0.0000	4.9618
Total	2.4500e-003	0.0169	0.0210	1.1000e-004	8.1600e-003	7.0000e-005	8.2300e-003	2.1900e-003	6.0000e-005	2.2500e-003	0.0000	11.3696	11.3696	5.2000e-004	0.0000	11.3827

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1113	0.0000	0.1113	0.0461	0.0000	0.0461	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0870	0.8383	0.7899	1.8600e-003		5.0900e-003	5.0900e-003		4.6800e-003	4.6800e-003	0.0000	163.5184	163.5184	0.0529	0.0000	164.8406
Total	0.0870	0.8383	0.7899	1.8600e-003	0.1113	5.0900e-003	0.1164	0.0461	4.6800e-003	0.0508	0.0000	163.5184	163.5184	0.0529	0.0000	164.8406

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.7000e-004	0.0115	4.1800e-003	5.0000e-005	1.1300e-003	2.0000e-005	1.1500e-003	3.1000e-004	2.0000e-005	3.3000e-004	0.0000	5.0113	5.0113	3.4000e-004	0.0000	5.0197
Vendor	1.2000e-004	4.1600e-003	1.2600e-003	1.0000e-005	3.5000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3993	1.3993	7.0000e-005	0.0000	1.4012
Worker	1.9600e-003	1.2600e-003	0.0155	5.0000e-005	6.0600e-003	5.0000e-005	6.1100e-003	1.6200e-003	4.0000e-005	1.6600e-003	0.0000	4.9590	4.9590	1.1000e-004	0.0000	4.9618
Total	2.4500e-003	0.0169	0.0210	1.1000e-004	7.5400e-003	7.0000e-005	7.6200e-003	2.0300e-003	6.0000e-005	2.1000e-003	0.0000	11.3696	11.3696	5.2000e-004	0.0000	11.3827

3.5 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	0.0691	0.6297	0.8123	1.3600e-003		0.0266	0.0266		0.0251	0.0251	0.0000	117.1193	117.1193	0.0275	0.0000	117.8076
Total	0.0691	0.6297	0.8123	1.3600e-003		0.0266	0.0266		0.0251	0.0251	0.0000	117.1193	117.1193	0.0275	0.0000	117.8076

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0100e-003	0.2415	0.0732	8.3000e-004	0.0220	2.7000e-004	0.0222	6.3400e-003	2.6000e-004	6.6000e-003	0.0000	81.2662	81.2662	4.3000e-003	0.0000	81.3737
Worker	0.0251	0.0162	0.1986	7.0000e-004	0.0841	6.1000e-004	0.0847	0.0223	5.6000e-004	0.0229	0.0000	63.4427	63.4427	1.3900e-003	0.0000	63.4774
Total	0.0321	0.2576	0.2718	1.5300e-003	0.1061	8.8000e-004	0.1069	0.0287	8.2000e-004	0.0295	0.0000	144.7089	144.7089	5.6900e-003	0.0000	144.8511

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0691	0.6297	0.8123	1.3600e-003		5.7500e-003	5.7500e-003		5.5100e-003	5.5100e-003	0.0000	117.1192	117.1192	0.0275	0.0000	117.8075
Total	0.0691	0.6297	0.8123	1.3600e-003		5.7500e-003	5.7500e-003		5.5100e-003	5.5100e-003	0.0000	117.1192	117.1192	0.0275	0.0000	117.8075

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0100e-003	0.2415	0.0732	8.3000e-004	0.0206	2.7000e-004	0.0208	5.9900e-003	2.6000e-004	6.2500e-003	0.0000	81.2662	81.2662	4.3000e-003	0.0000	81.3737
Worker	0.0251	0.0162	0.1986	7.0000e-004	0.0776	6.1000e-004	0.0782	0.0207	5.6000e-004	0.0213	0.0000	63.4427	63.4427	1.3900e-003	0.0000	63.4774
Total	0.0321	0.2576	0.2718	1.5300e-003	0.0981	8.8000e-004	0.0990	0.0267	8.2000e-004	0.0275	0.0000	144.7089	144.7089	5.6900e-003	0.0000	144.8511

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0178	0.6183	0.1860	2.1500e-003	0.0567	6.9000e-004	0.0574	0.0164	6.6000e-004	0.0170	0.0000	209.0092	209.0092	0.0110	0.0000	209.2829
Worker	0.0618	0.0385	0.4810	1.7500e-003	0.2174	1.4900e-003	0.2189	0.0577	1.3700e-003	0.0591	0.0000	158.7203	158.7203	3.3000e-003	0.0000	158.8028
Total	0.0796	0.6568	0.6670	3.9000e-003	0.2741	2.1800e-003	0.2763	0.0741	2.0300e-003	0.0761	0.0000	367.7295	367.7295	0.0143	0.0000	368.0856

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0149	0.0149		0.0143	0.0143	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0149	0.0149		0.0143	0.0143	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0178	0.6183	0.1860	2.1500e-003	0.0531	6.9000e-004	0.0538	0.0155	6.6000e-004	0.0162	0.0000	209.0092	209.0092	0.0110	0.0000	209.2829
Worker	0.0618	0.0385	0.4810	1.7500e-003	0.2004	1.4900e-003	0.2019	0.0536	1.3700e-003	0.0549	0.0000	158.7203	158.7203	3.3000e-003	0.0000	158.8028
Total	0.0796	0.6568	0.6670	3.9000e-003	0.2535	2.1800e-003	0.2557	0.0691	2.0300e-003	0.0711	0.0000	367.7295	367.7295	0.0143	0.0000	368.0856

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0174	0.6112	0.1828	2.1300e-003	0.0565	6.8000e-004	0.0572	0.0163	6.5000e-004	0.0170	0.0000	207.3591	207.3591	0.0108	0.0000	207.6279
Worker	0.0585	0.0354	0.4511	1.7000e-003	0.2165	1.3700e-003	0.2179	0.0575	1.2600e-003	0.0588	0.0000	153.5011	153.5011	3.0300e-003	0.0000	153.5769
Total	0.0759	0.6466	0.6339	3.8300e-003	0.2730	2.0500e-003	0.2751	0.0738	1.9100e-003	0.0757	0.0000	360.8602	360.8602	0.0138	0.0000	361.2048

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0148	0.0148		0.0142	0.0142	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0148	0.0148		0.0142	0.0142	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0174	0.6112	0.1828	2.1300e-003	0.0529	6.8000e-004	0.0536	0.0154	6.5000e-004	0.0161	0.0000	207.3591	207.3591	0.0108	0.0000	207.6279
Worker	0.0585	0.0354	0.4511	1.7000e-003	0.1996	1.3700e-003	0.2010	0.0534	1.2600e-003	0.0546	0.0000	153.5011	153.5011	3.0300e-003	0.0000	153.5769
Total	0.0759	0.6466	0.6339	3.8300e-003	0.2526	2.0500e-003	0.2546	0.0688	1.9100e-003	0.0707	0.0000	360.8602	360.8602	0.0138	0.0000	361.2048

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0172	0.6087	0.1811	2.1300e-003	0.0567	6.7000e-004	0.0574	0.0164	6.4000e-004	0.0170	0.0000	207.3979	207.3979	0.0107	0.0000	207.6644
Worker	0.0552	0.0327	0.4244	1.6600e-003	0.2174	1.2800e-003	0.2187	0.0577	1.1800e-003	0.0589	0.0000	149.9559	149.9559	2.7900e-003	0.0000	150.0256
Total	0.0724	0.6414	0.6055	3.7900e-003	0.2741	1.9500e-003	0.2761	0.0741	1.8200e-003	0.0759	0.0000	357.3537	357.3537	0.0135	0.0000	357.6900

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0149	0.0149		0.0143	0.0143	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0149	0.0149		0.0143	0.0143	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0172	0.6087	0.1811	2.1300e-003	0.0531	6.7000e-004	0.0538	0.0155	6.4000e-004	0.0161	0.0000	207.3979	207.3979	0.0107	0.0000	207.6644
Worker	0.0552	0.0327	0.4244	1.6600e-003	0.2004	1.2800e-003	0.2017	0.0536	1.1800e-003	0.0548	0.0000	149.9559	149.9559	2.7900e-003	0.0000	150.0256
Total	0.0724	0.6414	0.6055	3.7900e-003	0.2535	1.9500e-003	0.2555	0.0691	1.8200e-003	0.0709	0.0000	357.3537	357.3537	0.0135	0.0000	357.6900

3.5 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	0.0111	0.0674	0.1373	2.6000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	22.3432	22.3432	9.0000e-004	0.0000	22.3656
Total	0.0111	0.0674	0.1373	2.6000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	22.3432	22.3432	9.0000e-004	0.0000	22.3656

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1000e-003	0.0394	0.0117	1.4000e-004	3.7000e-003	4.0000e-005	3.7400e-003	1.0700e-003	4.0000e-005	1.1100e-003	0.0000	13.4641	13.4641	6.9000e-004	0.0000	13.4812
Worker	3.3600e-003	1.9500e-003	0.0259	1.1000e-004	0.0142	8.0000e-005	0.0142	3.7600e-003	7.0000e-005	3.8300e-003	0.0000	9.5266	9.5266	1.7000e-004	0.0000	9.5308
Total	4.4600e-003	0.0413	0.0376	2.5000e-004	0.0179	1.2000e-004	0.0180	4.8300e-003	1.1000e-004	4.9400e-003	0.0000	22.9907	22.9907	8.6000e-004	0.0000	23.0120

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0111	0.0674	0.1373	2.6000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	22.3432	22.3432	9.0000e-004	0.0000	22.3656
Total	0.0111	0.0674	0.1373	2.6000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	22.3432	22.3432	9.0000e-004	0.0000	22.3656

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1000e-003	0.0394	0.0117	1.4000e-004	3.4600e-003	4.0000e-005	3.5000e-003	1.0100e-003	4.0000e-005	1.0500e-003	0.0000	13.4641	13.4641	6.9000e-004	0.0000	13.4812
Worker	3.3600e-003	1.9500e-003	0.0259	1.1000e-004	0.0131	8.0000e-005	0.0131	3.4900e-003	7.0000e-005	3.5600e-003	0.0000	9.5266	9.5266	1.7000e-004	0.0000	9.5308
Total	4.4600e-003	0.0413	0.0376	2.5000e-004	0.0165	1.2000e-004	0.0166	4.5000e-003	1.1000e-004	4.6100e-003	0.0000	22.9907	22.9907	8.6000e-004	0.0000	23.0120

3.6 Architectural Coating - 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					
Archit. Coating	0.1951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6300e-003	0.0579	0.0914	1.5000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	12.8939	12.8939	7.0000e-004	0.0000	12.9115
Total	0.2037	0.0579	0.0914	1.5000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	12.8939	12.8939	7.0000e-004	0.0000	12.9115

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.7200e-003	2.9400e-003	0.0367	1.3000e-004	0.0166	1.1000e-004	0.0167	4.4100e-003	1.0000e-004	4.5100e-003	0.0000	12.1225	12.1225	2.5000e-004	0.0000	12.1288
Total	4.7200e-003	2.9400e-003	0.0367	1.3000e-004	0.0166	1.1000e-004	0.0167	4.4100e-003	1.0000e-004	4.5100e-003	0.0000	12.1225	12.1225	2.5000e-004	0.0000	12.1288

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6300e-003	0.0579	0.0914	1.5000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	12.8939	12.8939	7.0000e-004	0.0000	12.9115
Total	0.2037	0.0579	0.0914	1.5000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	12.8939	12.8939	7.0000e-004	0.0000	12.9115

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.7200e-003	2.9400e-003	0.0367	1.3000e-004	0.0153	1.1000e-004	0.0154	4.0900e-003	1.0000e-004	4.2000e-003	0.0000	12.1225	12.1225	2.5000e-004	0.0000	12.1288
Total	4.7200e-003	2.9400e-003	0.0367	1.3000e-004	0.0153	1.1000e-004	0.0154	4.0900e-003	1.0000e-004	4.2000e-003	0.0000	12.1225	12.1225	2.5000e-004	0.0000	12.1288

3.6 Architectural Coating - 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					
Archit. Coating	0.5022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
Total	0.5244	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0116	7.0000e-003	0.0890	3.3000e-004	0.0427	2.7000e-004	0.0430	0.0114	2.5000e-004	0.0116	0.0000	30.2963	30.2963	6.0000e-004	0.0000	30.3112
Total	0.0116	7.0000e-003	0.0890	3.3000e-004	0.0427	2.7000e-004	0.0430	0.0114	2.5000e-004	0.0116	0.0000	30.2963	30.2963	6.0000e-004	0.0000	30.3112

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
Total	0.5244	0.1489	0.2352	3.9000e-004		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0116	7.0000e-003	0.0890	3.3000e-004	0.0394	2.7000e-004	0.0397	0.0105	2.5000e-004	0.0108	0.0000	30.2963	30.2963	6.0000e-004	0.0000	30.3112
Total	0.0116	7.0000e-003	0.0890	3.3000e-004	0.0394	2.7000e-004	0.0397	0.0105	2.5000e-004	0.0108	0.0000	30.2963	30.2963	6.0000e-004	0.0000	30.3112

3.6 Architectural Coating - 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					
Archit. Coating	0.5041					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	0.5264	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.4500e-003	0.0838	3.3000e-004	0.0429	2.5000e-004	0.0432	0.0114	2.3000e-004	0.0116	0.0000	29.5966	29.5966	5.5000e-004	0.0000	29.6103
Total	0.0109	6.4500e-003	0.0838	3.3000e-004	0.0429	2.5000e-004	0.0432	0.0114	2.3000e-004	0.0116	0.0000	29.5966	29.5966	5.5000e-004	0.0000	29.6103

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5041					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	0.5264	0.1495	0.2361	3.9000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.4500e-003	0.0838	3.3000e-004	0.0396	2.5000e-004	0.0398	0.0106	2.3000e-004	0.0108	0.0000	29.5966	29.5966	5.5000e-004	0.0000	29.6103
Total	0.0109	6.4500e-003	0.0838	3.3000e-004	0.0396	2.5000e-004	0.0398	0.0106	2.3000e-004	0.0108	0.0000	29.5966	29.5966	5.5000e-004	0.0000	29.6103

3.6 Architectural Coating - 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					
Archit. Coating	0.4983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1105	0.2319	3.8000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	32.9370	32.9370	1.3300e-003	0.0000	32.9703
Total	0.5152	0.1105	0.2319	3.8000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	32.9370	32.9370	1.3300e-003	0.0000	32.9703

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0101	5.8400e-003	0.0777	3.2000e-004	0.0424	2.3000e-004	0.0426	0.0113	2.1000e-004	0.0115	0.0000	28.5356	28.5356	5.0000e-004	0.0000	28.5480
Total	0.0101	5.8400e-003	0.0777	3.2000e-004	0.0424	2.3000e-004	0.0426	0.0113	2.1000e-004	0.0115	0.0000	28.5356	28.5356	5.0000e-004	0.0000	28.5480

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1105	0.2319	3.8000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	32.9369	32.9369	1.3300e-003	0.0000	32.9703
Total	0.5152	0.1105	0.2319	3.8000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	32.9369	32.9369	1.3300e-003	0.0000	32.9703

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0101	5.8400e-003	0.0777	3.2000e-004	0.0391	2.3000e-004	0.0393	0.0105	2.1000e-004	0.0107	0.0000	28.5356	28.5356	5.0000e-004	0.0000	28.5480
Total	0.0101	5.8400e-003	0.0777	3.2000e-004	0.0391	2.3000e-004	0.0393	0.0105	2.1000e-004	0.0107	0.0000	28.5356	28.5356	5.0000e-004	0.0000	28.5480

3.7 Paving - 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	0.0415	0.2136	0.4755	8.4000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	72.2985	72.2985	3.3900e-003	0.0000	72.3833
Paving	1.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0432	0.2136	0.4755	8.4000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003	0.0000	72.2985	72.2985	3.3900e-003	0.0000	72.3833

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	6.8000e-004	9.0300e-003	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.3181	3.3181	6.0000e-005	0.0000	3.3195
Total	1.1700e-003	6.8000e-004	9.0300e-003	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.3181	3.3181	6.0000e-005	0.0000	3.3195

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0415	0.2136	0.4755	8.4000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003	0.0000	72.2985	72.2985	3.3900e-003	0.0000	72.3832
Paving	1.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0432	0.2136	0.4755	8.4000e-004		1.4900e-003	1.4900e-003		1.4900e-003	1.4900e-003	0.0000	72.2985	72.2985	3.3900e-003	0.0000	72.3832

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	6.8000e-004	9.0300e-003	4.0000e-005	4.5500e-003	3.0000e-005	4.5700e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.3181	3.3181	6.0000e-005	0.0000	3.3195
Total	1.1700e-003	6.8000e-004	9.0300e-003	4.0000e-005	4.5500e-003	3.0000e-005	4.5700e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.3181	3.3181	6.0000e-005	0.0000	3.3195

Phase 3 Construction-Mitigated-Level 3 DPF - Los Angeles-South Coast County, Summary Report

**Phase 3 Construction-Mitigated-Level 3 DPF
Los Angeles-South Coast, Summary Report**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	180.00	1000sqft	4.53	180,000.00	0
Medical Office Building	70.00	1000sqft	1.61	70,000.00	0
General Heavy Industry	10.00	1000sqft	0.23	10,000.00	0
General Light Industry	30.00	1000sqft	0.69	30,000.00	0
Parking Lot	1.30	Acre	1.30	56,700.00	0
Hotel	52.00	Room	1.72	75,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes one water truck and two trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
		lb/day											
2026	Demolition	2.2206 W	21.4520 W	20.6360 S	0.0502 S	4.0972 W	1.3362 W	2.2206 W	21.4520 W	20.6360 S	0.0502 S	1.7227 W	0.4105 W
2026	Site Preparation	2.5426 W	25.4072 W	18.4507 S	0.0403 S	19.3686 W	10.9890 W	2.5426 W	25.4072 W	18.4507 S	0.0403 S	8.0854 W	4.4498 W
2026	Grading	2.9908 W	28.4954 W	27.0622 S	0.0662 S	10.0863 W	4.7138 W	2.9908 W	28.4954 W	27.0622 S	0.0662 S	4.1372 W	1.7650 W
2026	Building Construction	2.0650 W	17.4907 W	21.6813 S	0.0582 S	2.6859 W	1.0904 W	2.0650 W	17.4907 W	21.6813 S	0.0582 S	2.1110 W	0.6638 W
2027	Building Construction	2.0378 W	17.4239 W	21.3965 S	0.0576 S	2.6852 W	1.0897 W	2.0378 W	17.4239 W	21.3965 S	0.0576 S	2.1102 W	0.6631 W
2028	Building Construction	2.0097 W	17.3666 W	21.1490 S	0.0571 S	2.6843 W	1.0889 W	2.0097 W	17.3666 W	21.1490 S	0.0571 S	2.1093 W	0.6622 W
2029	Building Construction	1.9778 W	17.3094 W	20.9015 S	0.0567 S	2.6834 W	1.0881 W	1.9778 W	17.3094 W	20.9015 S	0.0567 S	2.1085 W	0.6614 W
2030	Building Construction	1.8871 W	12.7191 W	20.7477 S	0.0603 S	2.3032 W	0.7392 W	1.8871 W	12.7191 W	20.7477 S	0.0603 S	2.0300 W	0.5877 W
2027	Architectural Coating	4.1384 W	1.2021 W	2.5887 S	5.7400e-003 S	0.3891 S	0.1425 S	4.1384 W	1.2021 W	2.5887 S	5.7400e-003 S	0.3191 S	0.0923 S
2028	Architectural Coating	4.1334 W	1.1978 W	2.5435 S	5.6600e-003 S	0.3889 S	0.1424 S	4.1334 W	1.1978 W	2.5435 S	5.6600e-003 S	0.3189 S	0.0921 S
2029	Architectural Coating	4.1275 W	1.1936 W	2.4980 S	5.5900e-003 S	0.3888 S	0.1422 S	4.1275 W	1.1936 W	2.4980 S	5.5900e-003 S	0.3188 S	0.0920 S
2030	Architectural Coating	4.0814 W	0.9003 W	2.4446 S	5.5200e-003 S	0.3575 S	0.1109 S	4.0814 W	0.9003 W	2.4446 S	5.5200e-003 S	0.3140 S	0.0872 S
2030	Paving	1.4852 W	7.1422 W	16.1729 S	0.0293 S	0.4992 S	0.3759 S	1.4852 W	7.1422 W	16.1729 S	0.0293 S	0.2050 S	0.0917 S
	Peak Daily Total	4.1384 W	28.4954 W	27.0622 S	0.0662 S	19.3686 W	10.9890 W	4.1384 W	28.4954 W	27.0622 S	0.0662 S	8.0854 W	4.4498 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2026	642.5698	0.1389	0.0000	646.0427	642.5692	0.1389	0.0000	646.0422
Construction	2027	695.4008	0.0863	0.0000	697.5594	695.4004	0.0863	0.0000	697.5591
Construction	2028	725.8441	0.0871	0.0000	728.0206	725.8437	0.0871	0.0000	728.0202
Construction	2029	722.9251	0.0870	0.0000	725.0992	722.9247	0.0870	0.0000	725.0988
Construction	2030	182.4230	7.0307e-003	0.0000	182.5988	182.4229	7.0307e-003	0.0000	182.5986
	Total								
	Significance Threshold								
	Exceed Significance?								

Phase 3 Construction-Mitigated-Level 3 DPF
Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.81	0.81	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.84	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	1	1	Level 3	0.00
Concrete/Industrial Saws	Diesel	No Change	1	1	Level 3	0.00
Cranes	Diesel	No Change	1	1	Level 3	0.00
Excavators	Diesel	No Change	5	5	Level 3	0.00
Forklifts	Diesel	No Change	3	3	Level 3	0.00
Generator Sets	Diesel	No Change	1	1	Level 3	0.00
Graders	Diesel	No Change	1	1	Level 3	0.00
Pavers	Diesel	No Change	2	2	Level 3	0.00
Paving Equipment	Diesel	No Change	2	2	Level 3	0.00

Rollers	Diesel	No Change	2	2	Level 3	0.00
Rubber Tired Dozers	Diesel	No Change	6	6	Level 3	0.00
Scrapers	Diesel	No Change	2	2	Level 3	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	9	9	Level 3	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	7.00000E-002	4.66710E-001	7.94550E-001	1.31000E-003	1.86400E-002	1.86400E-002	0.00000E+000	1.12343E+002	1.12343E+002	5.66000E-003	0.00000E+000	1.12485E+002
Concrete/Industrial Saws	8.85000E-003	6.80800E-002	1.09350E-001	1.90000E-004	2.78000E-003	2.78000E-003	0.00000E+000	1.61297E+001	1.61297E+001	7.10000E-004	0.00000E+000	1.61475E+001
Cranes	1.22810E-001	1.23039E+000	6.80890E-001	2.28000E-003	5.22300E-002	4.80700E-002	0.00000E+000	2.00375E+002	2.00375E+002	6.35000E-002	0.00000E+000	2.01962E+002
Excavators	2.50700E-002	1.83250E-001	4.88910E-001	7.80000E-004	8.98000E-003	8.27000E-003	0.00000E+000	6.80848E+001	6.80848E+001	2.20200E-002	0.00000E+000	6.86353E+001
Forklifts	1.17350E-001	1.09660E+000	1.53207E+000	2.07000E-003	5.82100E-002	5.35600E-002	0.00000E+000	1.81996E+002	1.81996E+002	5.77100E-002	0.00000E+000	1.83439E+002
Generator Sets	1.19280E-001	1.07292E+000	1.64657E+000	2.96000E-003	4.24300E-002	4.24300E-002	0.00000E+000	2.54343E+002	2.54343E+002	9.36000E-003	0.00000E+000	2.54577E+002
Graders	9.33000E-003	1.03700E-001	4.78200E-002	2.00000E-004	3.34000E-003	3.07000E-003	0.00000E+000	1.74245E+001	1.74245E+001	5.64000E-003	0.00000E+000	1.75654E+001
Pavers	1.73300E-002	8.23300E-002	1.92170E-001	3.50000E-004	4.28000E-003	4.28000E-003	0.00000E+000	2.97880E+001	2.97880E+001	1.42000E-003	0.00000E+000	2.98233E+001
Paving Equipment	1.45800E-002	6.85400E-002	1.66250E-001	3.00000E-004	3.52000E-003	3.52000E-003	0.00000E+000	2.59254E+001	2.59254E+001	1.19000E-003	0.00000E+000	2.59550E+001
Rollers	9.62000E-003	6.27300E-002	1.17070E-001	1.90000E-004	2.12000E-003	2.12000E-003	0.00000E+000	1.65852E+001	1.65852E+001	7.90000E-004	0.00000E+000	1.66049E+001
Rubber Tired Dozers	9.72100E-002	9.94680E-001	4.49660E-001	1.28000E-003	4.35200E-002	4.00400E-002	0.00000E+000	1.12531E+002	1.12531E+002	3.63900E-002	0.00000E+000	1.13441E+002
Scrapers	4.03100E-002	3.82250E-001	3.22840E-001	9.10000E-004	1.50500E-002	1.38400E-002	0.00000E+000	7.99128E+001	7.99128E+001	2.58500E-002	0.00000E+000	8.05590E+001
Tractors/Loaders/Backhoes	1.75470E-001	1.75714E+000	2.94852E+000	4.14000E-003	7.06900E-002	6.50700E-002	0.00000E+000	3.63217E+002	3.63217E+002	1.15420E-001	0.00000E+000	3.66103E+002
Welders	9.84300E-002	6.02670E-001	7.42820E-001	1.15000E-003	1.81900E-002	1.81900E-002	0.00000E+000	8.46993E+001	8.46993E+001	8.01000E-003	0.00000E+000	8.48995E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	7.00000E-002	4.66710E-001	7.94550E-001	1.31000E-003	2.80000E-003	2.80000E-003	0.00000E+000	1.12343E+002	1.12343E+002	5.66000E-003	0.00000E+000	1.12485E+002
Concrete/Industrial Saws	8.85000E-003	6.80800E-002	1.09350E-001	1.90000E-004	4.20000E-004	4.20000E-004	0.00000E+000	1.61297E+001	1.61297E+001	7.10000E-004	0.00000E+000	1.61474E+001
Cranes	1.22810E-001	1.23039E+000	6.80890E-001	2.28000E-003	7.83000E-003	7.21000E-003	0.00000E+000	2.00375E+002	2.00375E+002	6.35000E-002	0.00000E+000	2.01962E+002

Excavators	2.50700E-002	1.83250E-001	4.88910E-001	7.80000E-004	1.35000E-003	1.24000E-003	0.00000E+000	6.80848E+001	6.80848E+001	2.20200E-002	0.00000E+000	6.86353E+001
Forklifts	1.17350E-001	1.09660E+000	1.53206E+000	2.07000E-003	8.73000E-003	8.03000E-003	0.00000E+000	1.81996E+002	1.81996E+002	5.77100E-002	0.00000E+000	1.83439E+002
Generator Sets	1.19280E-001	1.07292E+000	1.64657E+000	2.96000E-003	6.36000E-003	6.36000E-003	0.00000E+000	2.54343E+002	2.54343E+002	9.36000E-003	0.00000E+000	2.54577E+002
Graders	9.33000E-003	1.03700E-001	4.78200E-002	2.00000E-004	5.00000E-004	4.60000E-004	0.00000E+000	1.74245E+001	1.74245E+001	5.64000E-003	0.00000E+000	1.75653E+001
Pavers	1.73300E-002	8.23300E-002	1.92170E-001	3.50000E-004	6.40000E-004	6.40000E-004	0.00000E+000	2.97879E+001	2.97879E+001	1.42000E-003	0.00000E+000	2.98233E+001
Paving Equipment	1.45800E-002	6.85400E-002	1.66250E-001	3.00000E-004	5.30000E-004	5.30000E-004	0.00000E+000	2.59253E+001	2.59253E+001	1.19000E-003	0.00000E+000	2.59550E+001
Rollers	9.62000E-003	6.27300E-002	1.17070E-001	1.90000E-004	3.20000E-004	3.20000E-004	0.00000E+000	1.65852E+001	1.65852E+001	7.90000E-004	0.00000E+000	1.66049E+001
Rubber Tired Dozers	9.72100E-002	9.94670E-001	4.49660E-001	1.28000E-003	6.53000E-003	6.01000E-003	0.00000E+000	1.12531E+002	1.12531E+002	3.63900E-002	0.00000E+000	1.13441E+002
Scrapers	4.03100E-002	3.82250E-001	3.22840E-001	9.10000E-004	2.26000E-003	2.08000E-003	0.00000E+000	7.99127E+001	7.99127E+001	2.58500E-002	0.00000E+000	8.05589E+001
Tractors/Loaders/Bac khoes	1.75470E-001	1.75714E+000	2.94852E+000	4.14000E-003	1.06000E-002	9.76000E-003	0.00000E+000	3.63216E+002	3.63216E+002	1.15420E-001	0.00000E+000	3.66102E+002
Welders	9.84300E-002	6.02670E-001	7.42820E-001	1.15000E-003	1.81900E-002	1.81900E-002	0.00000E+000	8.46992E+001	8.46992E+001	8.01000E-003	0.00000E+000	8.48994E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49785E-001	8.49785E-001	0.00000E+000	1.15717E-006	1.15717E-006	0.00000E+000	0.00000E+000	1.24461E-006
Concrete/Industrial Saws Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.48921E-001	8.48921E-001	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23858E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49666E-001	8.50060E-001	0.00000E+000	1.17500E-006	1.17500E-006	0.00000E+000	0.00000E+000	1.16558E-006
Forklifts	0.00000E+000	0.00000E+000	6.52712E-006	0.00000E+000	8.50026E-001	8.50075E-001	0.00000E+000	1.20882E-006	1.20882E-006	0.00000E+000	0.00000E+000	1.14480E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50106E-001	8.50106E-001	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17842E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50299E-001	8.50163E-001	0.00000E+000	1.14781E-006	1.14781E-006	0.00000E+000	0.00000E+000	1.13861E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50467E-001	8.50467E-001	0.00000E+000	1.34282E-006	1.34282E-006	0.00000E+000	0.00000E+000	1.00592E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49432E-001	8.49432E-001	0.00000E+000	1.54289E-006	1.54289E-006	0.00000E+000	0.00000E+000	1.15585E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49057E-001	8.49057E-001	0.00000E+000	1.20589E-006	1.20589E-006	0.00000E+000	0.00000E+000	1.20446E-006
Rubber Tired Dozers	0.00000E+000	1.00535E-005	0.00000E+000	0.00000E+000	8.49954E-001	8.49900E-001	0.00000E+000	1.24410E-006	1.24410E-006	0.00000E+000	0.00000E+000	1.23412E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49834E-001	8.49711E-001	0.00000E+000	1.25136E-006	1.25136E-006	0.00000E+000	0.00000E+000	1.24133E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50050E-001	8.50008E-001	0.00000E+000	1.18387E-006	1.18387E-006	0.00000E+000	0.00000E+000	1.20185E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17786E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.14	0.04	0.13	0.04	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.95	0.26	0.87	0.24	0.08	0.07
Demolition	Fugitive Dust	0.08	0.01	0.04	0.01	0.57	0.57
Demolition	Roads	0.01	0.00	0.01	0.00	0.07	0.06
Grading	Fugitive Dust	0.26	0.11	0.11	0.05	0.57	0.57
Grading	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Site Preparation	Fugitive Dust	0.36	0.20	0.15	0.08	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.07

CalEEMod Output: Construction – Phase 4 Mitigated

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Phase 4 Construction Mitigated_Level 3 DPF - Los Angeles-South Coast County, Annual

Phase 4 Construction Mitigated_Level 3 DPF
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	120.00	1000sqft	7.68	120,000.00	0
Research & Development	130.00	1000sqft	7.68	130,000.00	0
Parking Lot	1.52	Acre	1.52	66,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2033

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes one truck and two trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstructionPhase	NumDays	20.00	880.00
tblConstructionPhase	NumDays	300.00	900.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	58.00
tblConstructionPhase	NumDays	10.00	40.00
tblFleetMix	FleetMixLandUseSubType	Research & Development	Parking Lot
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Research & Development
tblGrading	MaterialExported	0.00	907.00
tblLandUse	BuildingSpaceSquareFeet	66,211.20	66,300.00
tblLandUse	LandUseSquareFeet	66,211.20	66,300.00
tblLandUse	LotAcreage	2.75	7.68
tblLandUse	LotAcreage	2.98	7.68
tblProjectCharacteristics	OperationalYear	2018	2033
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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					
2031	0.2991	1.6329	2.6058	7.4300e-003	0.7860	0.0421	0.8281	0.3432	0.0420	0.3852	0.0000	666.6850	666.6850	0.0280	0.0000	667.3840
2032	0.3587	1.5532	2.6105	6.9900e-003	0.2101	0.0217	0.2318	0.0568	0.0216	0.0784	0.0000	620.9873	620.9873	0.0238	0.0000	621.5826
2033	0.5798	1.6075	2.7479	7.2900e-003	0.2278	0.0232	0.2510	0.0615	0.0231	0.0846	0.0000	646.6460	646.6460	0.0244	0.0000	647.2571
2034	0.5775	1.6037	2.7309	7.2600e-003	0.2278	0.0231	0.2509	0.0615	0.0231	0.0845	0.0000	644.5342	644.5342	0.0243	0.0000	645.1406
2035	0.4130	0.3335	0.8992	1.8800e-003	0.0488	7.7000e-003	0.0565	0.0130	7.6800e-003	0.0207	0.0000	163.6650	163.6650	5.5900e-003	0.0000	163.8049
Maximum	0.5798	1.6329	2.7479	7.4300e-003	0.7860	0.0421	0.8281	0.3432	0.0420	0.3852	0.0000	666.6850	666.6850	0.0280	0.0000	667.3840

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					
2031	0.2991	1.6329	2.6058	7.4300e-003	0.3853	7.5900e-003	0.3929	0.1602	7.5500e-003	0.1678	0.0000	666.6844	666.6844	0.0280	0.0000	667.3834
2032	0.3587	1.5532	2.6105	6.9900e-003	0.1944	6.1800e-003	0.2005	0.0529	6.0900e-003	0.0590	0.0000	620.9869	620.9869	0.0238	0.0000	621.5822

2033	0.5798	1.6075	2.7479	7.2900e-003	0.2106	6.4000e-003	0.2170	0.0573	6.3100e-003	0.0636	0.0000	646.6455	646.6455	0.0244	0.0000	647.2566
2034	0.5775	1.6037	2.7309	7.2600e-003	0.2106	6.3400e-003	0.2170	0.0573	6.2600e-003	0.0635	0.0000	644.5337	644.5337	0.0243	0.0000	645.1401
2035	0.4130	0.3335	0.8992	1.8800e-003	0.0451	1.3900e-003	0.0465	0.0121	1.3800e-003	0.0135	0.0000	163.6649	163.6649	5.5900e-003	0.0000	163.8047
Maximum	0.5798	1.6329	2.7479	7.4300e-003	0.3853	7.5900e-003	0.3929	0.1602	7.5500e-003	0.1678	0.0000	666.6844	666.6844	0.0280	0.0000	667.3834

	ROG	NOx	CO	SO2	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	30.30	76.32	33.65	36.60	76.52	43.78	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2031	3-31-2031	0.4434	0.4434
2	4-1-2031	6-30-2031	0.5493	0.5493
3	7-1-2031	9-30-2031	0.5009	0.5009
4	10-1-2031	12-31-2031	0.4337	0.4337
5	1-1-2032	3-31-2032	0.4271	0.4271
6	4-1-2032	6-30-2032	0.4259	0.4259
7	7-1-2032	9-30-2032	0.4956	0.4956
8	10-1-2032	12-31-2032	0.5541	0.5541
9	1-1-2033	3-31-2033	0.5403	0.5403
10	4-1-2033	6-30-2033	0.5449	0.5449
11	7-1-2033	9-30-2033	0.5509	0.5509
12	10-1-2033	12-31-2033	0.5523	0.5523
13	1-1-2034	3-31-2034	0.5387	0.5387
14	4-1-2034	6-30-2034	0.5435	0.5435
15	7-1-2034	9-30-2034	0.5495	0.5495
16	10-1-2034	12-31-2034	0.5507	0.5507
17	1-1-2035	3-31-2035	0.3621	0.3621

18	4-1-2035	6-30-2035	0.1473	0.1473
19	7-1-2035	9-30-2035	0.1179	0.1179
		Highest	0.5541	0.5541

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2031	3/25/2031	5	60	
2	Site Preparation	Site Preparation	3/26/2031	5/20/2031	5	40	
3	Grading	Grading	5/21/2031	8/12/2031	5	60	
4	Building Construction	Building Construction	8/13/2031	1/23/2035	5	900	
5	Architectural Coating	Architectural Coating	8/13/2032	12/27/2035	5	880	
6	Paving	Paving	1/24/2035	4/14/2035	5	58	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 150

Acres of Paving: 1.52

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 375,000; Non-Residential Outdoor: 125,000; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	605.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	113.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	108.00	52.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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						
Fugitive Dust					0.0655	0.0000	0.0655	9.9100e-003	0.0000	9.9100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.2933	0.5675	1.3900e-003		0.0105	0.0105		0.0105	0.0105	0.0000	119.1655	119.1655	5.0300e-003	0.0000	119.2912	
Total	0.0622	0.2933	0.5675	1.3900e-003	0.0655	0.0105	0.0760	9.9100e-003	0.0105	0.0204	0.0000	119.1655	119.1655	5.0300e-003	0.0000	119.2912	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5300e-003	0.0462	0.0183	2.1000e-004	5.2000e-003	8.0000e-005	5.2800e-003	1.4300e-003	8.0000e-005	1.5000e-003	0.0000	21.0981	21.0981	1.4200e-003	0.0000	21.1337
Vendor	1.1000e-004	4.0000e-003	1.1900e-003	1.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3748	1.3748	7.0000e-005	0.0000	1.3766
Worker	1.0800e-003	6.2000e-004	8.4500e-003	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.2504	3.2504	5.0000e-005	0.0000	3.2518
Total	2.7200e-003	0.0508	0.0279	2.6000e-004	0.0105	1.1000e-004	0.0106	2.8500e-003	1.0000e-004	2.9400e-003	0.0000	25.7234	25.7234	1.5400e-003	0.0000	25.7620

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0280	0.0000	0.0280	4.2400e-003	0.0000	4.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.2933	0.5675	1.3900e-003		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	119.1653	119.1653	5.0300e-003	0.0000	119.2910
Total	0.0622	0.2933	0.5675	1.3900e-003	0.0280	1.5800e-003	0.0296	4.2400e-003	1.5800e-003	5.8200e-003	0.0000	119.1653	119.1653	5.0300e-003	0.0000	119.2910

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5300e-003	0.0462	0.0183	2.1000e-004	4.8500e-003	8.0000e-005	4.9300e-003	1.3400e-003	8.0000e-005	1.4200e-003	0.0000	21.0981	21.0981	1.4200e-003	0.0000	21.1337
Vendor	1.1000e-004	4.0000e-003	1.1900e-003	1.0000e-005	3.5000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3748	1.3748	7.0000e-005	0.0000	1.3766
Worker	1.0800e-003	6.2000e-004	8.4500e-003	4.0000e-005	4.5500e-003	3.0000e-005	4.5700e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.2504	3.2504	5.0000e-005	0.0000	3.2518
Total	2.7200e-003	0.0508	0.0279	2.6000e-004	9.7500e-003	1.1000e-004	9.8600e-003	2.6600e-003	1.0000e-004	2.7700e-003	0.0000	25.7234	25.7234	1.5400e-003	0.0000	25.7620

3.3 Site Preparation - 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					
Fugitive Dust					0.3613	0.0000	0.3613	0.1986	0.0000	0.1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0488	0.2734	0.3258	9.3000e-004		8.7300e-003	8.7300e-003		8.7300e-003	8.7300e-003	0.0000	80.0092	80.0092	3.9500e-003	0.0000	80.1079
Total	0.0488	0.2734	0.3258	9.3000e-004	0.3613	8.7300e-003	0.3701	0.1986	8.7300e-003	0.2073	0.0000	80.0092	80.0092	3.9500e-003	0.0000	80.1079

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.6700e-003	7.9000e-004	1.0000e-005	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.9166	0.9166	5.0000e-005	0.0000	0.9177
Worker	8.7000e-004	4.9000e-004	6.7600e-003	3.0000e-005	3.9400e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	2.6004	2.6004	4.0000e-005	0.0000	2.6014
Total	9.4000e-004	3.1600e-003	7.5500e-003	4.0000e-005	4.1900e-003	2.0000e-005	4.2200e-003	1.1200e-003	2.0000e-005	1.1500e-003	0.0000	3.5169	3.5169	9.0000e-005	0.0000	3.5191

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1545	0.0000	0.1545	0.0849	0.0000	0.0849	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0488	0.2734	0.3258	9.3000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	80.0091	80.0091	3.9500e-003	0.0000	80.1078
Total	0.0488	0.2734	0.3258	9.3000e-004	0.1545	1.3100e-003	0.1558	0.0849	1.3100e-003	0.0862	0.0000	80.0091	80.0091	3.9500e-003	0.0000	80.1078

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.6700e-003	7.9000e-004	1.0000e-005	2.4000e-004	0.0000	2.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.9166	0.9166	5.0000e-005	0.0000	0.9177
Worker	8.7000e-004	4.9000e-004	6.7600e-003	3.0000e-005	3.6400e-003	2.0000e-005	3.6600e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.6004	2.6004	4.0000e-005	0.0000	2.6014
Total	9.4000e-004	3.1600e-003	7.5500e-003	4.0000e-005	3.8800e-003	2.0000e-005	3.9000e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	3.5169	3.5169	9.0000e-005	0.0000	3.5191

3.4 Grading - 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					
Fugitive Dust					0.2603	0.0000	0.2603	0.1079	0.0000	0.1079	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0984	0.4154	0.6907	2.1000e-003		0.0146	0.0146		0.0146	0.0146	0.0000	196.3087	196.3087	7.9300e-003	0.0000	196.5070
Total	0.0984	0.4154	0.6907	2.1000e-003	0.2603	0.0146	0.2749	0.1079	0.0146	0.1225	0.0000	196.3087	196.3087	7.9300e-003	0.0000	196.5070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9000e-004	8.6300e-003	3.4100e-003	4.0000e-005	9.7000e-004	1.0000e-005	9.9000e-004	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	3.9406	3.9406	2.7000e-004	0.0000	3.9473
Vendor	1.1000e-004	4.0000e-003	1.1900e-003	1.0000e-005	3.8000e-004	0.0000	3.8000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	1.3748	1.3748	7.0000e-005	0.0000	1.3766
Worker	1.4400e-003	8.2000e-004	0.0113	5.0000e-005	6.5700e-003	3.0000e-005	6.6100e-003	1.7500e-003	3.0000e-005	1.7800e-003	0.0000	4.3339	4.3339	7.0000e-005	0.0000	4.3357
Total	1.8400e-003	0.0135	0.0159	1.0000e-004	7.9200e-003	4.0000e-005	7.9800e-003	2.1300e-003	4.0000e-005	2.1700e-003	0.0000	9.6494	9.6494	4.1000e-004	0.0000	9.6595

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1113	0.0000	0.1113	0.0461	0.0000	0.0461	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0984	0.4154	0.6907	2.1000e-003		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	196.3084	196.3084	7.9300e-003	0.0000	196.5068
Total	0.0984	0.4154	0.6907	2.1000e-003	0.1113	2.2000e-003	0.1135	0.0461	2.2000e-003	0.0483	0.0000	196.3084	196.3084	7.9300e-003	0.0000	196.5068

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.9000e-004	8.6300e-003	3.4100e-003	4.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	3.9406	3.9406	2.7000e-004	0.0000	3.9473
Vendor	1.1000e-004	4.0000e-003	1.1900e-003	1.0000e-005	3.5000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3748	1.3748	7.0000e-005	0.0000	1.3766
Worker	1.4400e-003	8.2000e-004	0.0113	5.0000e-005	6.0600e-003	3.0000e-005	6.1000e-003	1.6200e-003	3.0000e-005	1.6500e-003	0.0000	4.3339	4.3339	7.0000e-005	0.0000	4.3357
Total	1.8400e-003	0.0135	0.0159	1.0000e-004	7.3200e-003	4.0000e-005	7.3800e-003	1.9700e-003	4.0000e-005	2.0200e-003	0.0000	9.6494	9.6494	4.1000e-004	0.0000	9.6595

3.5 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	0.0661	0.4007	0.8159	1.5600e-003		7.4800e-003	7.4800e-003		7.4800e-003	7.4800e-003	0.0000	132.7448	132.7448	5.3300e-003	0.0000	132.8780
Total	0.0661	0.4007	0.8159	1.5600e-003		7.4800e-003	7.4800e-003		7.4800e-003	7.4800e-003	0.0000	132.7448	132.7448	5.3300e-003	0.0000	132.8780

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1752	0.0521	6.2000e-004	0.0165	1.9000e-004	0.0167	4.7800e-003	1.8000e-004	4.9500e-003	0.0000	60.1718	60.1718	3.0500e-003	0.0000	60.2480
Worker	0.0131	7.4800e-003	0.1024	4.4000e-004	0.0598	3.1000e-004	0.0601	0.0159	2.8000e-004	0.0162	0.0000	39.3953	39.3953	6.4000e-004	0.0000	39.4114
Total	0.0180	0.1827	0.1545	1.0600e-003	0.0763	5.0000e-004	0.0768	0.0207	4.6000e-004	0.0211	0.0000	99.5671	99.5671	3.6900e-003	0.0000	99.6593

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0661	0.4007	0.8159	1.5600e-003		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	132.7447	132.7447	5.3300e-003	0.0000	132.8778
Total	0.0661	0.4007	0.8159	1.5600e-003		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	132.7447	132.7447	5.3300e-003	0.0000	132.8778

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1752	0.0521	6.2000e-004	0.0155	1.9000e-004	0.0157	4.5200e-003	1.8000e-004	4.7000e-003	0.0000	60.1718	60.1718	3.0500e-003	0.0000	60.2480
Worker	0.0131	7.4800e-003	0.1024	4.4000e-004	0.0551	3.1000e-004	0.0554	0.0147	2.8000e-004	0.0150	0.0000	39.3953	39.3953	6.4000e-004	0.0000	39.4114
Total	0.0180	0.1827	0.1545	1.0600e-003	0.0706	5.0000e-004	0.0711	0.0193	4.6000e-004	0.0197	0.0000	99.5671	99.5671	3.6900e-003	0.0000	99.6593

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0126	0.4514	0.1344	1.6000e-003	0.0429	4.8000e-004	0.0434	0.0124	4.6000e-004	0.0129	0.0000	155.7760	155.7760	7.8400e-003	0.0000	155.9719
Worker	0.0315	0.0177	0.2492	1.1100e-003	0.1550	7.5000e-004	0.1558	0.0412	6.9000e-004	0.0419	0.0000	100.1082	100.1082	1.5200e-003	0.0000	100.1462
Total	0.0441	0.4691	0.3836	2.7100e-003	0.1980	1.2300e-003	0.1992	0.0536	1.1500e-003	0.0547	0.0000	255.8842	255.8842	9.3600e-003	0.0000	256.1181

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	0.1715	1.0394	2.1166	4.0600e-003		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0126	0.4514	0.1344	1.6000e-003	0.0402	4.8000e-004	0.0407	0.0117	4.6000e-004	0.0122	0.0000	155.7760	155.7760	7.8400e-003	0.0000	155.9719
Worker	0.0315	0.0177	0.2492	1.1100e-003	0.1429	7.5000e-004	0.1437	0.0382	6.9000e-004	0.0389	0.0000	100.1082	100.1082	1.5200e-003	0.0000	100.1462
Total	0.0441	0.4691	0.3836	2.7100e-003	0.1831	1.2300e-003	0.1844	0.0499	1.1500e-003	0.0511	0.0000	255.8842	255.8842	9.3600e-003	0.0000	256.1181

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0124	0.4453	0.1329	1.5800e-003	0.0426	4.7000e-004	0.0431	0.0123	4.5000e-004	0.0127	0.0000	154.3397	154.3397	7.7200e-003	0.0000	154.5327
Worker	0.0292	0.0161	0.2333	1.0800e-003	0.1539	6.9000e-004	0.1545	0.0409	6.4000e-004	0.0415	0.0000	97.5279	97.5279	1.3900e-003	0.0000	97.5625
Total	0.0416	0.4614	0.3662	2.6600e-003	0.1964	1.1600e-003	0.1976	0.0532	1.0900e-003	0.0542	0.0000	251.8676	251.8676	9.1100e-003	0.0000	252.0953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0124	0.4453	0.1329	1.5800e-003	0.0399	4.7000e-004	0.0404	0.0116	4.5000e-004	0.0121	0.0000	154.3397	154.3397	7.7200e-003	0.0000	154.5327
Worker	0.0292	0.0161	0.2333	1.0800e-003	0.1419	6.9000e-004	0.1425	0.0379	6.4000e-004	0.0386	0.0000	97.5279	97.5279	1.3900e-003	0.0000	97.5625
Total	0.0416	0.4614	0.3662	2.6600e-003	0.1817	1.1600e-003	0.1829	0.0496	1.0900e-003	0.0506	0.0000	251.8676	251.8676	9.1100e-003	0.0000	252.0953

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0123	0.4430	0.1325	1.5800e-003	0.0426	4.6000e-004	0.0431	0.0123	4.4000e-004	0.0127	0.0000	154.1543	154.1543	7.6800e-003	0.0000	154.3462
Worker	0.0274	0.0149	0.2196	1.0600e-003	0.1539	6.5000e-004	0.1545	0.0409	5.9000e-004	0.0415	0.0000	95.9275	95.9275	1.2700e-003	0.0000	95.9592
Total	0.0397	0.4579	0.3521	2.6400e-003	0.1964	1.1100e-003	0.1976	0.0532	1.0300e-003	0.0542	0.0000	250.0818	250.0818	8.9500e-003	0.0000	250.3054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	0.1702	1.0315	2.1004	4.0200e-003		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0123	0.4430	0.1325	1.5800e-003	0.0399	4.6000e-004	0.0403	0.0116	4.4000e-004	0.0121	0.0000	154.1543	154.1543	7.6800e-003	0.0000	154.3462
Worker	0.0274	0.0149	0.2196	1.0600e-003	0.1419	6.5000e-004	0.1425	0.0379	5.9000e-004	0.0385	0.0000	95.9275	95.9275	1.2700e-003	0.0000	95.9592
Total	0.0397	0.4579	0.3521	2.6400e-003	0.1817	1.1100e-003	0.1828	0.0496	1.0300e-003	0.0506	0.0000	250.0818	250.0818	8.9500e-003	0.0000	250.3054

3.5 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.0609	0.1370	2.6000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	22.3432	22.3432	8.3000e-004	0.0000	22.3640
Total	0.0103	0.0609	0.1370	2.6000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	22.3432	22.3432	8.3000e-004	0.0000	22.3640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-004	0.0288	8.6300e-003	1.0000e-004	2.7800e-003	3.0000e-005	2.8100e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	10.0703	10.0703	5.0000e-004	0.0000	10.0828
Worker	1.6900e-003	9.2000e-004	0.0136	7.0000e-005	0.0101	4.0000e-005	0.0101	2.6700e-003	4.0000e-005	2.7100e-003	0.0000	6.1823	6.1823	8.0000e-005	0.0000	6.1842
Total	2.4900e-003	0.0298	0.0223	1.7000e-004	0.0128	7.0000e-005	0.0129	3.4700e-003	7.0000e-005	3.5400e-003	0.0000	16.2526	16.2526	5.8000e-004	0.0000	16.2669

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0103	0.0609	0.1370	2.6000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	22.3432	22.3432	8.3000e-004	0.0000	22.3640
Total	0.0103	0.0609	0.1370	2.6000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	22.3432	22.3432	8.3000e-004	0.0000	22.3640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-004	0.0288	8.6300e-003	1.0000e-004	2.6100e-003	3.0000e-005	2.6400e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	10.0703	10.0703	5.0000e-004	0.0000	10.0828
Worker	1.6900e-003	9.2000e-004	0.0136	7.0000e-005	9.2700e-003	4.0000e-005	9.3100e-003	2.4800e-003	4.0000e-005	2.5200e-003	0.0000	6.1823	6.1823	8.0000e-005	0.0000	6.1842
Total	2.4900e-003	0.0298	0.0223	1.7000e-004	0.0119	7.0000e-005	0.0120	3.2400e-003	7.0000e-005	3.3100e-003	0.0000	16.2526	16.2526	5.8000e-004	0.0000	16.2669

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-003	0.0432	0.0908	1.5000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	12.8939	12.8939	5.2000e-004	0.0000	12.9070
Total	0.1407	0.0432	0.0908	1.5000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	12.8939	12.8939	5.2000e-004	0.0000	12.9070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4700e-003	1.3900e-003	0.0196	9.0000e-005	0.0122	6.0000e-005	0.0122	3.2300e-003	5.0000e-005	3.2900e-003	0.0000	7.8612	7.8612	1.2000e-004	0.0000	7.8642
Total	2.4700e-003	1.3900e-003	0.0196	9.0000e-005	0.0122	6.0000e-005	0.0122	3.2300e-003	5.0000e-005	3.2900e-003	0.0000	7.8612	7.8612	1.2000e-004	0.0000	7.8642

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-003	0.0432	0.0908	1.5000e-004		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	12.8939	12.8939	5.2000e-004	0.0000	12.9070
Total	0.1407	0.0432	0.0908	1.5000e-004		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	12.8939	12.8939	5.2000e-004	0.0000	12.9070

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4700e-003	1.3900e-003	0.0196	9.0000e-005	0.0112	6.0000e-005	0.0113	3.0000e-003	5.0000e-005	3.0500e-003	0.0000	7.8612	7.8612	1.2000e-004	0.0000	7.8642
Total	2.4700e-003	1.3900e-003	0.0196	9.0000e-005	0.0112	6.0000e-005	0.0113	3.0000e-003	5.0000e-005	3.0500e-003	0.0000	7.8612	7.8612	1.2000e-004	0.0000	7.8642

3.6 Architectural Coating - 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					
Archit. Coating	0.3451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259
Total	0.3621	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9400e-003	3.2800e-003	0.0475	2.2000e-004	0.0313	1.4000e-004	0.0315	8.3200e-003	1.3000e-004	8.4500e-003	0.0000	19.8668	19.8668	2.8000e-004	0.0000	19.8739
Total	5.9400e-003	3.2800e-003	0.0475	2.2000e-004	0.0313	1.4000e-004	0.0315	8.3200e-003	1.3000e-004	8.4500e-003	0.0000	19.8668	19.8668	2.8000e-004	0.0000	19.8739

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258
Total	0.3621	0.1113	0.2337	3.9000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9400e-003	3.2800e-003	0.0475	2.2000e-004	0.0289	1.4000e-004	0.0290	7.7200e-003	1.3000e-004	7.8500e-003	0.0000	19.8668	19.8668	2.8000e-004	0.0000	19.8739
Total	5.9400e-003	3.2800e-003	0.0475	2.2000e-004	0.0289	1.4000e-004	0.0290	7.7200e-003	1.3000e-004	7.8500e-003	0.0000	19.8668	19.8668	2.8000e-004	0.0000	19.8739

3.6 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259
Total	0.3621	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5800e-003	3.0400e-003	0.0447	2.2000e-004	0.0313	1.3000e-004	0.0315	8.3200e-003	1.2000e-004	8.4400e-003	0.0000	19.5408	19.5408	2.6000e-004	0.0000	19.5472
Total	5.5800e-003	3.0400e-003	0.0447	2.2000e-004	0.0313	1.3000e-004	0.0315	8.3200e-003	1.2000e-004	8.4400e-003	0.0000	19.5408	19.5408	2.6000e-004	0.0000	19.5472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258
Total	0.3621	0.1113	0.2337	3.9000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5800e-003	3.0400e-003	0.0447	2.2000e-004	0.0289	1.3000e-004	0.0290	7.7200e-003	1.2000e-004	7.8400e-003	0.0000	19.5408	19.5408	2.6000e-004	0.0000	19.5472
Total	5.5800e-003	3.0400e-003	0.0447	2.2000e-004	0.0289	1.3000e-004	0.0290	7.7200e-003	1.2000e-004	7.8400e-003	0.0000	19.5408	19.5408	2.6000e-004	0.0000	19.5472

3.6 Architectural Coating - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3438					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.0981	0.2324	3.8000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	33.0646	33.0646	1.2200e-003	0.0000	33.0952
Total	0.3590	0.0981	0.2324	3.8000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	33.0646	33.0646	1.2200e-003	0.0000	33.0952

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2500e-003	2.8500e-003	0.0423	2.1000e-004	0.0312	1.2000e-004	0.0313	8.2900e-003	1.1000e-004	8.4000e-003	0.0000	19.1866	19.1866	2.4000e-004	0.0000	19.1925
Total	5.2500e-003	2.8500e-003	0.0423	2.1000e-004	0.0312	1.2000e-004	0.0313	8.2900e-003	1.1000e-004	8.4000e-003	0.0000	19.1866	19.1866	2.4000e-004	0.0000	19.1925

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3438					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.0981	0.2324	3.8000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	33.0646	33.0646	1.2200e-003	0.0000	33.0951
Total	0.3590	0.0981	0.2324	3.8000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	33.0646	33.0646	1.2200e-003	0.0000	33.0951

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2500e-003	2.8500e-003	0.0423	2.1000e-004	0.0288	1.2000e-004	0.0289	7.6900e-003	1.1000e-004	7.8100e-003	0.0000	19.1866	19.1866	2.4000e-004	0.0000	19.1925
Total	5.2500e-003	2.8500e-003	0.0423	2.1000e-004	0.0288	1.2000e-004	0.0289	7.6900e-003	1.1000e-004	7.8100e-003	0.0000	19.1866	19.1866	2.4000e-004	0.0000	19.1925

3.7 Paving - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0331	0.1414	0.4588	8.1000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003	0.0000	69.8886	69.8886	2.6900e-003	0.0000	69.9558
Paving	1.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0351	0.1414	0.4588	8.1000e-004		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003	0.0000	69.8886	69.8886	2.6900e-003	0.0000	69.9558

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-004	4.3000e-004	6.4600e-003	3.0000e-005	4.7700e-003	2.0000e-005	4.7900e-003	1.2700e-003	2.0000e-005	1.2800e-003	0.0000	2.9295	2.9295	4.0000e-005	0.0000	2.9304
Total	8.0000e-004	4.3000e-004	6.4600e-003	3.0000e-005	4.7700e-003	2.0000e-005	4.7900e-003	1.2700e-003	2.0000e-005	1.2800e-003	0.0000	2.9295	2.9295	4.0000e-005	0.0000	2.9304

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0331	0.1414	0.4588	8.1000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	69.8885	69.8885	2.6900e-003	0.0000	69.9558
Paving	1.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0351	0.1414	0.4588	8.1000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	69.8885	69.8885	2.6900e-003	0.0000	69.9558

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-004	4.3000e-004	6.4600e-003	3.0000e-005	4.3900e-003	2.0000e-005	4.4100e-003	1.1700e-003	2.0000e-005	1.1900e-003	0.0000	2.9295	2.9295	4.0000e-005	0.0000	2.9304
Total	8.0000e-004	4.3000e-004	6.4600e-003	3.0000e-005	4.3900e-003	2.0000e-005	4.4100e-003	1.1700e-003	2.0000e-005	1.1900e-003	0.0000	2.9295	2.9295	4.0000e-005	0.0000	2.9304

Phase 4 Construction Mitigated_Level 3 DPF - Los Angeles-South Coast County, Summary Report

**Phase 4 Construction Mitigated_Level 3 DPF
Los Angeles-South Coast, Summary Report**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	120.00	1000sqft	7.68	120,000.00	0
Research & Development	130.00	1000sqft	7.68	130,000.00	0
Parking Lot	1.52	Acre	1.52	66,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2033
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on information provided by the applicant.

Construction Phase - Based on information provided by the applicant.

Trips and VMT - Assumes one truck and two trips per day per truck.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Per SCAQMD Rules 403 and 1186.

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
lb/day													
2031	Demolition	2.1708 W	11.4422 W	19.8558 S	0.0551 S	2.8940 W	0.7815 W	2.1708 W	11.4422 W	19.8558 S	0.0551 S	1.3202 W	0.2875 W
2031	Site Preparation	2.4925 W	13.8235 W	16.6934 S	0.0485 S	18.7181 S	10.4255 W	2.4925 W	13.8235 W	16.6934 S	0.0485 S	7.9874 S	4.3649 S
2031	Grading	3.3483 W	14.2870 W	23.5775 S	0.0734 S	9.4341 W	4.1584 W	3.3483 W	14.2870 W	23.5775 S	0.0734 S	4.0323 W	1.6794 S
2031	Building Construction	1.7009 W	11.4989 S	19.3242 S	0.0523 S	1.6982 W	0.5734 W	1.7009 W	11.4989 S	19.3242 S	0.0523 S	1.4704 W	0.4330 W
2032	Building Construction	1.6787 W	11.4649 S	19.1859 S	0.0521 S	1.6977 W	0.5730 W	1.6787 W	11.4649 S	19.1859 S	0.0521 S	1.4700 W	0.4326 W
2033	Building Construction	1.6600 W	11.4354 S	19.0687 S	0.0519 S	1.6973 W	0.5726 W	1.6600 W	11.4354 S	19.0687 S	0.0519 S	1.4695 W	0.4322 W
2034	Building Construction	1.6441 W	11.4096 S	18.9534 S	0.0518 S	1.6969 W	0.5722 W	1.6441 W	11.4096 S	18.9534 S	0.0518 S	1.4691 W	0.4318 W
2035	Building Construction	1.5387 W	10.6168 S	18.8190 S	0.0516 S	1.6388 W	0.5141 W	1.5387 W	10.6168 S	18.8190 S	0.0516 S	1.4530 W	0.4157 W
2032	Architectural Coating	2.8404 W	0.8830 W	2.2150 S	4.7700e-003 S	0.2674 S	0.0866 S	2.8404 W	0.8830 W	2.2150 S	4.7700e-003 S	0.2309 S	0.0646 S
2033	Architectural Coating	2.8367 W	0.8808 W	2.1918 S	4.7300e-003 S	0.2673 S	0.0865 S	2.8367 W	0.8808 W	2.1918 S	4.7300e-003 S	0.2308 S	0.0645 S
2034	Architectural Coating	2.8336 W	0.8790 W	2.1691 S	4.7000e-003 S	0.2672 S	0.0865 S	2.8336 W	0.8790 W	2.1691 S	4.7000e-003 S	0.2307 S	0.0645 S
2035	Architectural Coating	2.8182 W	0.7791 W	2.1469 S	4.6800e-003 S	0.2568 S	0.0760 S	2.8182 W	0.7791 W	2.1469 S	4.6800e-003 S	0.2291 S	0.0629 S
2035	Paving	1.2404 W	4.8907 W	16.0607 S	0.0292 S	0.3557 S	0.2325 S	1.2404 W	4.8907 W	16.0607 S	0.0292 S	0.1833 S	0.0700 S
	Peak Daily Total	3.3483 W	14.2870 W	23.5775 S	0.0734 S	18.7181 S	10.4255 W	3.3483 W	14.2870 W	23.5775 S	0.0734 S	7.9874 S	4.3649 S
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2031	666.6850	0.0280	0.0000	667.3840	666.6844	0.0280	0.0000	667.3833
Construction	2032	620.9873	0.0238	0.0000	621.5826	620.9869	0.0238	0.0000	621.5822
Construction	2033	646.6460	0.0244	0.0000	647.2570	646.6455	0.0244	0.0000	647.2565
Construction	2034	644.5342	0.0243	0.0000	645.1406	644.5337	0.0243	0.0000	645.1402
Construction	2035	163.6650	5.5973e-003	0.0000	163.8049	163.6649	5.5973e-003	0.0000	163.8048
	Total								
	Significance Threshold								
	Exceed Significance?								

Phase 4 Construction Mitigated_Level 3 DPF
Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.80	0.81	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	1	1	Level 3	0.00
Concrete/Industrial Saws	Diesel	No Change	1	1	Level 3	0.00
Cranes	Diesel	No Change	1	1	Level 3	0.00
Excavators	Diesel	No Change	5	5	Level 3	0.00
Forklifts	Diesel	No Change	3	3	Level 3	0.00
Generator Sets	Diesel	No Change	1	1	Level 3	0.00
Graders	Diesel	No Change	1	1	Level 3	0.00
Pavers	Diesel	No Change	2	2	Level 3	0.00
Paving Equipment	Diesel	No Change	2	2	Level 3	0.00

Rollers	Diesel	No Change	2	2	Level 3	0.00
Rubber Tired Dozers	Diesel	No Change	6	6	Level 3	0.00
Scrapers	Diesel	No Change	2	2	Level 3	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	9	9	Level 3	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	5.58600E-002	3.64000E-001	7.90560E-001	1.31000E-003	7.59000E-003	7.59000E-003	0.00000E+000	1.12343E+002	1.12343E+002	4.43000E-003	0.00000E+000	1.12454E+002
Concrete/Industrial Saws	6.91000E-003	5.21500E-002	1.08880E-001	1.90000E-004	1.13000E-003	1.13000E-003	0.00000E+000	1.61297E+001	1.61297E+001	5.40000E-004	0.00000E+000	1.61432E+001
Cranes	1.04020E-001	3.45480E-001	5.33570E-001	2.79000E-003	1.10900E-002	1.10900E-002	0.00000E+000	2.39843E+002	2.39843E+002	8.42000E-003	0.00000E+000	2.40054E+002
Excavators	3.38300E-002	8.33900E-002	5.34020E-001	9.50000E-004	3.65000E-003	3.65000E-003	0.00000E+000	8.18896E+001	8.18896E+001	2.74000E-003	0.00000E+000	8.19581E+001
Forklifts	1.19880E-001	6.58550E-001	1.60998E+000	2.54000E-003	8.86000E-003	8.86000E-003	0.00000E+000	2.18500E+002	2.18500E+002	9.60000E-003	0.00000E+000	2.18740E+002
Generator Sets	8.76100E-002	8.09800E-001	1.63586E+000	2.96000E-003	1.66100E-002	1.66100E-002	0.00000E+000	2.54343E+002	2.54343E+002	7.14000E-003	0.00000E+000	2.54522E+002
Graders	8.76000E-003	2.77500E-002	4.65700E-002	2.40000E-004	9.70000E-004	9.70000E-004	0.00000E+000	2.09143E+001	2.09143E+001	7.00000E-004	0.00000E+000	2.09318E+001
Pavers	1.36300E-002	4.96500E-002	1.85380E-001	3.40000E-004	2.40000E-003	2.40000E-003	0.00000E+000	2.87950E+001	2.87950E+001	1.11000E-003	0.00000E+000	2.88229E+001
Paving Equipment	1.14200E-002	4.04400E-002	1.60560E-001	2.90000E-004	1.94000E-003	1.94000E-003	0.00000E+000	2.50612E+001	2.50612E+001	9.30000E-004	0.00000E+000	2.50843E+001
Rollers	8.02000E-003	5.13100E-002	1.12850E-001	1.90000E-004	1.09000E-003	1.09000E-003	0.00000E+000	1.60324E+001	1.60324E+001	6.50000E-004	0.00000E+000	1.60486E+001
Rubber Tired Dozers	8.75600E-002	4.77800E-001	3.45540E-001	1.57000E-003	1.80400E-002	1.80400E-002	0.00000E+000	1.34755E+002	1.34755E+002	7.11000E-003	0.00000E+000	1.34933E+002
Scrapers	4.82800E-002	1.97040E-001	2.20720E-001	9.30000E-004	7.46000E-003	7.46000E-003	0.00000E+000	9.61071E+001	9.61071E+001	3.89000E-003	0.00000E+000	9.62043E+001
Tractors/Loaders/Backhoes	2.27290E-001	1.35676E+000	3.09861E+000	5.02000E-003	2.49500E-002	2.49500E-002	0.00000E+000	4.31177E+002	4.31177E+002	1.82000E-002	0.00000E+000	4.31632E+002
Welders	7.36300E-002	5.37330E-001	7.20620E-001	1.15000E-003	7.32000E-003	7.32000E-003	0.00000E+000	8.46993E+001	8.46993E+001	5.95000E-003	0.00000E+000	8.48480E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	5.58600E-002	3.64000E-001	7.90560E-001	1.31000E-003	1.14000E-003	1.14000E-003	0.00000E+000	1.12343E+002	1.12343E+002	4.43000E-003	0.00000E+000	1.12454E+002
Concrete/Industrial Saws	6.91000E-003	5.21500E-002	1.08880E-001	1.90000E-004	1.70000E-004	1.70000E-004	0.00000E+000	1.61297E+001	1.61297E+001	5.40000E-004	0.00000E+000	1.61432E+001
Cranes	1.04020E-001	3.45480E-001	5.33570E-001	2.79000E-003	1.66000E-003	1.66000E-003	0.00000E+000	2.39843E+002	2.39843E+002	8.42000E-003	0.00000E+000	2.40054E+002

Excavators	3.38300E-002	8.33900E-002	5.34010E-001	9.50000E-004	5.50000E-004	5.50000E-004	0.00000E+000	8.18895E+001	8.18895E+001	2.74000E-003	0.00000E+000	8.19580E+001
Forklifts	1.19880E-001	6.58550E-001	1.60998E+000	2.54000E-003	1.33000E-003	1.33000E-003	0.00000E+000	2.18499E+002	2.18499E+002	9.60000E-003	0.00000E+000	2.18739E+002
Generator Sets	8.76100E-002	8.09800E-001	1.63586E+000	2.96000E-003	2.49000E-003	2.49000E-003	0.00000E+000	2.54343E+002	2.54343E+002	7.14000E-003	0.00000E+000	2.54522E+002
Graders	8.76000E-003	2.77500E-002	4.65700E-002	2.40000E-004	1.50000E-004	1.50000E-004	0.00000E+000	2.09143E+001	2.09143E+001	7.00000E-004	0.00000E+000	2.09318E+001
Pavers	1.36300E-002	4.96500E-002	1.85380E-001	3.40000E-004	3.60000E-004	3.60000E-004	0.00000E+000	2.87950E+001	2.87950E+001	1.11000E-003	0.00000E+000	2.88229E+001
Paving Equipment	1.14200E-002	4.04400E-002	1.60560E-001	2.90000E-004	2.90000E-004	2.90000E-004	0.00000E+000	2.50611E+001	2.50611E+001	9.30000E-004	0.00000E+000	2.50843E+001
Rollers	8.02000E-003	5.13100E-002	1.12850E-001	1.90000E-004	1.60000E-004	1.60000E-004	0.00000E+000	1.60324E+001	1.60324E+001	6.50000E-004	0.00000E+000	1.60486E+001
Rubber Tired Dozers	8.75600E-002	4.77800E-001	3.45540E-001	1.57000E-003	2.71000E-003	2.71000E-003	0.00000E+000	1.34755E+002	1.34755E+002	7.11000E-003	0.00000E+000	1.34933E+002
Scrapers	4.82800E-002	1.97040E-001	2.20720E-001	9.30000E-004	1.12000E-003	1.12000E-003	0.00000E+000	9.61070E+001	9.61070E+001	3.89000E-003	0.00000E+000	9.62042E+001
Tractors/Loaders/Bac khoes	2.27290E-001	1.35676E+000	3.09861E+000	5.02000E-003	3.74000E-003	3.74000E-003	0.00000E+000	4.31176E+002	4.31176E+002	1.82000E-002	0.00000E+000	4.31631E+002
Welders	7.36300E-002	5.37320E-001	7.20610E-001	1.15000E-003	7.32000E-003	7.32000E-003	0.00000E+000	8.46992E+001	8.46992E+001	5.95000E-003	0.00000E+000	8.48479E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49802E-001	8.49802E-001	0.00000E+000	1.15717E-006	1.15717E-006	0.00000E+000	0.00000E+000	1.15603E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49558E-001	8.49558E-001	0.00000E+000	1.23995E-006	1.23995E-006	0.00000E+000	0.00000E+000	1.23891E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50316E-001	8.50316E-001	0.00000E+000	1.20912E-006	1.20912E-006	0.00000E+000	0.00000E+000	1.16641E-006
Excavators	0.00000E+000	0.00000E+000	1.87259E-005	0.00000E+000	8.49315E-001	8.49315E-001	0.00000E+000	1.09904E-006	1.09904E-006	0.00000E+000	0.00000E+000	1.22014E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49887E-001	8.49887E-001	0.00000E+000	1.18993E-006	1.18993E-006	0.00000E+000	0.00000E+000	1.18863E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50090E-001	8.50090E-001	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17868E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.45361E-001	8.45361E-001	0.00000E+000	9.56283E-007	9.56283E-007	0.00000E+000	0.00000E+000	9.55484E-007
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50000E-001	8.50000E-001	0.00000E+000	1.38913E-006	1.38913E-006	0.00000E+000	0.00000E+000	1.38779E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50515E-001	8.50515E-001	0.00000E+000	1.19707E-006	1.19707E-006	0.00000E+000	0.00000E+000	1.19597E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.53211E-001	8.53211E-001	0.00000E+000	1.24747E-006	1.24747E-006	0.00000E+000	0.00000E+000	1.24621E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49778E-001	8.49778E-001	0.00000E+000	1.18734E-006	1.18734E-006	0.00000E+000	0.00000E+000	1.18577E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.49866E-001	8.49866E-001	0.00000E+000	1.14456E-006	1.14456E-006	0.00000E+000	0.00000E+000	1.14340E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.50100E-001	8.50100E-001	0.00000E+000	1.18281E-006	1.18281E-006	0.00000E+000	0.00000E+000	1.20473E-006
Welders	0.00000E+000	1.86105E-005	1.38769E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17858E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.11	0.03	0.10	0.03	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.68	0.18	0.63	0.17	0.07	0.07
Demolition	Fugitive Dust	0.07	0.01	0.03	0.00	0.57	0.57
Demolition	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Grading	Fugitive Dust	0.26	0.11	0.11	0.05	0.57	0.57
Grading	Roads	0.01	0.00	0.01	0.00	0.08	0.08
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Site Preparation	Fugitive Dust	0.36	0.20	0.15	0.08	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.07

Appendix B. Air Dispersion Model Output

Appendix

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Model Output -Residential Receptors Unit Emission Rates (1 g/s)

****Output Options Selected:**

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

****NOTE:** The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

****Misc. Inputs:** Base Elev. for Pot. Temp. Profile (m MSL) = 182.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

****Approximate Storage Requirements of Model = 3.9 MB of RAM.**

****Detailed Error/Message File:** CODU01.err
****File for Summary of Results:** CODU01.sum

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

L0000039	0	0.10204E-01	410146.3	3777260.8	139.1	4.15	11.16	1.93	YES	HRDOW
L0000040	0	0.10204E-01	410122.3	3777260.8	138.6	4.15	11.16	1.93	YES	HRDOW

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

L0000079	0	0.10204E-01	409843.9	3776604.7	127.9	4.15	11.16	1.93	YES	HRDOW
L0000080	0	0.10204E-01	409843.9	3776580.7	127.7	4.15	11.16	1.93	YES	HRDOW

Model Output -Residential Receptors Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r *** *** Construction HRA
 *** AERMET - VERSION 14134 *** *** City of Hope
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
-----	-----															
PAREA3	PAREA3	,														
SLINE1	L0000001	,	L0000002	,	L0000003	,	L0000004	,	L0000005	,	L0000006	,	L0000007	,	L0000008	,
	L0000009	,	L0000010	,	L0000011	,	L0000012	,	L0000013	,	L0000014	,	L0000015	,	L0000016	,
	L0000017	,	L0000018	,	L0000019	,	L0000020	,	L0000021	,	L0000022	,	L0000023	,	L0000024	,
	L0000025	,	L0000026	,	L0000027	,	L0000028	,	L0000029	,	L0000030	,	L0000031	,	L0000032	,
	L0000033	,	L0000034	,	L0000035	,	L0000036	,	L0000037	,	L0000038	,	L0000039	,	L0000040	,
	L0000041	,	L0000042	,	L0000043	,	L0000044	,	L0000045	,	L0000046	,	L0000047	,	L0000048	,
	L0000049	,	L0000050	,	L0000051	,	L0000052	,	L0000053	,	L0000054	,	L0000055	,	L0000056	,
	L0000057	,	L0000058	,	L0000059	,	L0000060	,	L0000061	,	L0000062	,	L0000063	,	L0000064	,
	L0000065	,	L0000066	,	L0000067	,	L0000068	,	L0000069	,	L0000070	,	L0000071	,	L0000072	,
	L0000073	,	L0000074	,	L0000075	,	L0000076	,	L0000077	,	L0000078	,	L0000079	,	L0000080	,
	L0000081	,	L0000082	,	L0000083	,	L0000084	,	L0000085	,	L0000086	,	L0000087	,	L0000088	,
	L0000089	,	L0000090	,	L0000091	,	L0000092	,	L0000093	,	L0000094	,	L0000095	,	L0000096	,
	L0000097	,	L0000098	,												

Model Output -Residential Receptors Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r *** *** Construction HRA
 *** AERMET - VERSION 14134 *** *** City of Hope
 *** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000007	10137915.	PAREA3 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 ,
		, L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 ,
		L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 ,
		L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 ,
		L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 ,
		L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 ,
		L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 ,
		L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 ,
		L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 ,
		L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
		L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
		L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
		L0000096 , L0000097 , L0000098 ,

Model Output -Residential Receptors Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r *** *** Construction HRA
 *** AERMET - VERSION 14134 *** *** City of Hope

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA3 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

Model Output -Residential Receptors Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r *** *** Construction HRA
 *** AERMET - VERSION 14134 *** *** City of Hope

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000001 through L0000098

; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR		
DAY OF WEEK = WEEKDAY																	
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01		
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00
DAY OF WEEK = SATURDAY																	
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00
10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
DAY OF WEEK = SUNDAY																	
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00
10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00

Model Output -Residential Receptors Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r *** *** Construction HRA
 *** AERMET - VERSION 14134 *** *** City of Hope

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS *** (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG) (METERS)

(409813.4, 3776489.4, 126.9, 2350.0, 0.0);	(409822.4, 3776502.9, 127.4, 2350.0, 0.0);
(409822.4, 3776519.1, 127.2, 2350.0, 0.0);	(409817.9, 3776536.5, 126.9, 2350.0, 0.0);
(409794.4, 3776532.0, 126.1, 2350.0, 0.0);	(409782.6, 3776533.7, 125.7, 2350.0, 0.0);
(409766.9, 3776533.7, 124.5, 2350.0, 0.0);	(409745.0, 3776536.5, 123.0, 2350.0, 0.0);
(409739.8, 3776562.5, 124.1, 2350.0, 0.0);	(409733.3, 3776619.6, 126.6, 2350.0, 0.0);
(409749.9, 3776622.9, 127.1, 2350.0, 0.0);	(409774.7, 3776626.5, 127.7, 2350.0, 0.0);
(409792.1, 3776624.5, 127.8, 2350.0, 0.0);	(409804.6, 3776626.1, 127.9, 2350.0, 0.0);
(409822.5, 3776627.3, 127.9, 2350.0, 0.0);	(409814.8, 3776567.8, 127.1, 2350.0, 0.0);
(409798.1, 3776568.6, 126.8, 2350.0, 0.0);	(409779.5, 3776566.5, 126.3, 2350.0, 0.0);
(409757.2, 3776566.1, 125.1, 2350.0, 0.0);	(409717.5, 3776623.4, 126.5, 2350.0, 0.0);
(409703.5, 3776621.1, 126.2, 2350.0, 0.0);	(409687.2, 3776622.8, 126.3, 2350.0, 0.0);
(409671.5, 3776623.9, 126.4, 2350.0, 0.0);	(409653.0, 3776624.5, 126.5, 2350.0, 0.0);
(409633.9, 3776624.5, 126.5, 2350.0, 0.0);	(409616.0, 3776625.0, 126.4, 2350.0, 0.0);
(409597.5, 3776625.0, 126.1, 2350.0, 0.0);	(409581.8, 3776625.0, 125.9, 2350.0, 0.0);
(409567.8, 3776625.0, 125.7, 2350.0, 0.0);	(409550.4, 3776625.0, 125.5, 2350.0, 0.0);
(409526.3, 3776626.2, 126.0, 2350.0, 0.0);	(409542.0, 3776666.5, 128.5, 2350.0, 0.0);
(409542.5, 3776682.2, 129.1, 2350.0, 0.0);	(409616.0, 3776838.1, 130.3, 2350.0, 0.0);
(409617.7, 3776820.2, 131.2, 2350.0, 0.0);	(409618.8, 3776806.8, 131.2, 2350.0, 0.0);
(409618.2, 3776792.2, 131.1, 2350.0, 0.0);	(409618.2, 3776774.8, 131.1, 2350.0, 0.0);
(409617.1, 3776755.7, 131.1, 2350.0, 0.0);	(409618.8, 3776740.6, 131.0, 2350.0, 0.0);
(409617.7, 3776723.8, 130.9, 2350.0, 0.0);	(409617.7, 3776705.2, 130.2, 2350.0, 0.0);
(409618.8, 3776690.1, 129.7, 2350.0, 0.0);	(409618.8, 3776669.4, 129.0, 2350.0, 0.0);
(409580.7, 3776670.5, 128.8, 2350.0, 0.0);	(409580.1, 3776687.9, 129.4, 2350.0, 0.0);
(409578.4, 3776705.8, 130.1, 2350.0, 0.0);	(409578.4, 3776718.7, 130.7, 2350.0, 0.0);
(409578.4, 3776736.6, 131.1, 2350.0, 0.0);	(409579.0, 3776752.3, 131.2, 2350.0, 0.0);
(409581.2, 3776773.7, 131.3, 2350.0, 0.0);	(409580.7, 3776792.2, 131.5, 2350.0, 0.0);
(409579.5, 3776808.4, 131.6, 2350.0, 0.0);	(409579.0, 3776821.9, 131.6, 2350.0, 0.0);
(409579.0, 3776835.3, 130.8, 2350.0, 0.0);	(409539.7, 3776703.0, 130.0, 2350.0, 0.0);
(409538.6, 3776713.7, 130.4, 2350.0, 0.0);	(409540.8, 3776731.6, 131.1, 2350.0, 0.0);
(409630.5, 3776873.8, 128.6, 2350.0, 0.0);	(409631.3, 3776890.8, 127.9, 2350.0, 0.0);
(409682.3, 3776876.4, 128.0, 2350.0, 0.0);	(409680.2, 3776895.4, 127.5, 2350.0, 0.0);
(409678.2, 3776911.6, 127.0, 2350.0, 0.0);	(409709.5, 3776870.1, 127.9, 2350.0, 0.0);
(409710.7, 3776886.8, 127.5, 2350.0, 0.0);	(409710.3, 3776903.8, 127.1, 2350.0, 0.0);
(409712.3, 3776919.2, 127.4, 2350.0, 0.0);	(409768.6, 3776869.7, 127.5, 2350.0, 0.0);
(409761.3, 3776885.1, 127.4, 2350.0, 0.0);	(409767.0, 3776903.7, 127.1, 2350.0, 0.0);
(409767.0, 3776920.7, 127.5, 2350.0, 0.0);	(409713.6, 3776932.9, 128.0, 2350.0, 0.0);
(409764.2, 3776937.8, 128.2, 2350.0, 0.0);	(409765.0, 3776953.6, 128.9, 2350.0, 0.0);
(409763.8, 3776969.0, 129.5, 2350.0, 0.0);	(409764.2, 3776983.1, 130.2, 2350.0, 0.0);
(409763.0, 3777001.4, 130.9, 2350.0, 0.0);	(409763.4, 3777019.6, 131.9, 2350.0, 0.0);
(409763.4, 3777037.8, 132.9, 2350.0, 0.0);	(409763.8, 3777052.0, 133.7, 2350.0, 0.0);
(409763.8, 3777068.2, 134.6, 2350.0, 0.0);	(409764.6, 3777087.7, 135.6, 2350.0, 0.0);

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

(409765.4, 3777107.1,	136.7,	2350.0,	0.0);	(409765.8, 3777122.1,	137.7,	2350.0,	0.0);
(409765.4, 3777140.3,	138.8,	2350.0,	0.0);	(409766.6, 3777161.0,	140.1,	2350.0,	0.0);
(409767.8, 3777179.2,	141.2,	2350.0,	0.0);	(409766.2, 3777211.2,	140.7,	2444.0,	0.0);
(409789.4, 3777209.4,	141.0,	2444.0,	0.0);	(409799.1, 3777210.2,	141.0,	2444.0,	0.0);
(409807.6, 3777209.8,	141.0,	2444.0,	0.0);	(409819.0, 3777209.8,	140.9,	2444.0,	0.0);
(409820.2, 3777230.1,	140.0,	2444.0,	0.0);	(409807.6, 3777230.9,	140.0,	2444.0,	0.0);
(409797.5, 3777230.5,	140.1,	2444.0,	0.0);	(409788.6, 3777231.3,	140.1,	2444.0,	0.0);
(409869.2, 3777173.4,	141.3,	2350.0,	0.0);	(409881.8, 3777174.2,	141.2,	2350.0,	0.0);
(409895.9, 3777174.6,	141.1,	2350.0,	0.0);	(409908.9, 3777173.4,	140.9,	2350.0,	0.0);
(409930.4, 3777173.0,	140.7,	2350.0,	0.0);	(409932.0, 3777156.8,	140.1,	2350.0,	0.0);
(409910.1, 3777155.5,	140.2,	2350.0,	0.0);	(409893.5, 3777155.5,	140.2,	2350.0,	0.0);
(409878.9, 3777156.8,	140.3,	2350.0,	0.0);	(409870.0, 3777157.2,	140.4,	2350.0,	0.0);
(409870.4, 3777143.0,	139.6,	2350.0,	0.0);	(409879.7, 3777144.6,	139.7,	2350.0,	0.0);
(409896.3, 3777144.2,	139.7,	2350.0,	0.0);	(409912.1, 3777145.0,	139.7,	2350.0,	0.0);
(409930.0, 3777143.4,	139.6,	2350.0,	0.0);	(409931.6, 3777128.8,	139.1,	2350.0,	0.0);
(409911.3, 3777126.0,	138.9,	2350.0,	0.0);	(409895.9, 3777126.8,	138.9,	2350.0,	0.0);
(409879.3, 3777125.1,	138.7,	2350.0,	0.0);	(409872.4, 3777124.7,	138.7,	2350.0,	0.0);
(409871.2, 3777113.8,	138.1,	2350.0,	0.0);	(409883.8, 3777115.4,	138.3,	2350.0,	0.0);
(409898.0, 3777115.8,	138.4,	2350.0,	0.0);	(409912.1, 3777117.0,	138.6,	2350.0,	0.0);
(409931.2, 3777116.2,	138.7,	2350.0,	0.0);	(409931.2, 3777096.8,	138.0,	2350.0,	0.0);
(409912.1, 3777096.0,	137.7,	2350.0,	0.0);	(409896.8, 3777096.8,	137.5,	2350.0,	0.0);
(409885.8, 3777097.2,	137.4,	2350.0,	0.0);	(409871.2, 3777096.8,	137.2,	2350.0,	0.0);
(409934.0, 3777085.0,	137.3,	2350.0,	0.0);	(409911.7, 3777084.6,	137.0,	2350.0,	0.0);
(409896.8, 3777084.6,	136.8,	2350.0,	0.0);	(409885.4, 3777086.2,	136.7,	2350.0,	0.0);
(409871.2, 3777085.0,	136.5,	2350.0,	0.0);	(409872.8, 3777066.8,	135.3,	2350.0,	0.0);
(409892.7, 3777065.2,	135.5,	2350.0,	0.0);	(409911.3, 3777066.0,	135.8,	2350.0,	0.0);
(409931.2, 3777067.2,	136.1,	2350.0,	0.0);	(409881.8, 3777064.4,	135.3,	2350.0,	0.0);
(409932.4, 3777052.6,	135.2,	2350.0,	0.0);	(409934.0, 3777044.5,	134.7,	2350.0,	0.0);
(409934.8, 3777030.3,	133.8,	2350.0,	0.0);	(409934.4, 3777023.4,	133.3,	2350.0,	0.0);
(409934.4, 3777012.5,	132.6,	2350.0,	0.0);	(409934.4, 3777003.6,	132.1,	2350.0,	0.0);
(409934.8, 3776991.4,	131.3,	2350.0,	0.0);	(409934.8, 3776983.7,	130.8,	2350.0,	0.0);
(409933.2, 3776973.6,	130.2,	2350.0,	0.0);	(409933.2, 3776963.5,	129.5,	2350.0,	0.0);
(409931.2, 3776955.0,	129.0,	2350.0,	0.0);	(409935.6, 3776945.2,	128.4,	2350.0,	0.0);
(409908.5, 3776959.8,	129.3,	2350.0,	0.0);	(409898.4, 3776959.8,	129.2,	2350.0,	0.0);
(409889.0, 3776960.2,	129.2,	2350.0,	0.0);	(409880.5, 3776960.2,	129.2,	2350.0,	0.0);
(409872.0, 3776961.0,	129.2,	2350.0,	0.0);	(409868.8, 3776984.1,	130.3,	2350.0,	0.0);
(409879.3, 3776983.3,	130.3,	2350.0,	0.0);	(409890.3, 3776983.3,	130.4,	2350.0,	0.0);
(409899.6, 3776984.5,	130.6,	2350.0,	0.0);	(409907.7, 3776984.5,	130.6,	2350.0,	0.0);
(409907.7, 3777011.7,	132.2,	2350.0,	0.0);	(409898.0, 3777010.5,	132.0,	2350.0,	0.0);
(409889.0, 3777012.1,	132.0,	2350.0,	0.0);	(409878.9, 3777010.9,	131.8,	2350.0,	0.0);
(409870.4, 3777010.9,	131.7,	2350.0,	0.0);	(409869.6, 3777032.4,	133.0,	2350.0,	0.0);
(409878.5, 3777033.2,	133.2,	2350.0,	0.0);	(409889.9, 3777032.8,	133.3,	2350.0,	0.0);
(409899.6, 3777032.8,	133.5,	2350.0,	0.0);	(409910.5, 3777034.4,	133.7,	2350.0,	0.0);
(409871.9, 3776922.7,	127.5,	2350.0,	0.0);	(409878.6, 3776922.1,	127.4,	2350.0,	0.0);
(409893.2, 3776921.8,	127.3,	2350.0,	0.0);	(409903.8, 3776923.3,	127.3,	2350.0,	0.0);
(409908.5, 3776923.3,	127.2,	2350.0,	0.0);	(409916.6, 3776922.7,	127.1,	2350.0,	0.0);
(409923.4, 3776921.6,	127.0,	2350.0,	0.0);	(409931.3, 3776922.1,	127.0,	2350.0,	0.0);
(409939.8, 3776921.3,	126.8,	2350.0,	0.0);	(409947.1, 3776920.7,	126.7,	2350.0,	0.0);
(409956.8, 3776909.3,	125.7,	2350.0,	0.0);	(409963.2, 3776909.0,	125.5,	2350.0,	0.0);

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r ***
*** AERMET - VERSION 14134 ***

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*** City of Hope

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(409873.3, 3776867.4,	126.9,	2350.0,	0.0);	(409878.3, 3776868.3,	126.8,	2350.0,	0.0);
(409891.2, 3776870.9,	126.7,	2350.0,	0.0);	(409901.4, 3776869.2,	126.5,	2350.0,	0.0);
(409909.0, 3776868.9,	126.4,	2350.0,	0.0);	(409915.5, 3776868.3,	126.3,	2350.0,	0.0);
(409926.6, 3776869.7,	126.2,	2350.0,	0.0);	(409933.6, 3776869.4,	126.1,	2350.0,	0.0);
(409941.2, 3776869.2,	126.0,	2350.0,	0.0);	(409952.1, 3776866.8,	125.8,	2350.0,	0.0);
(409963.5, 3776864.5,	125.6,	2350.0,	0.0);	(409972.6, 3776864.5,	125.4,	2350.0,	0.0);
(409982.2, 3776864.5,	125.2,	2350.0,	0.0);	(409988.1, 3776869.4,	125.0,	2350.0,	0.0);
(409873.6, 3776845.7,	126.9,	2350.0,	0.0);	(409882.1, 3776846.0,	126.8,	2350.0,	0.0);
(409889.4, 3776845.1,	126.7,	2350.0,	0.0);	(409889.4, 3776838.1,	126.7,	2350.0,	0.0);
(409888.5, 3776832.6,	126.7,	2350.0,	0.0);	(409880.9, 3776831.4,	126.8,	2350.0,	0.0);
(409871.9, 3776832.0,	126.9,	2350.0,	0.0);	(409900.0, 3776846.9,	126.5,	2350.0,	0.0);
(409909.6, 3776846.6,	126.4,	2350.0,	0.0);	(409919.6, 3776845.7,	126.3,	2350.0,	0.0);
(409918.1, 3776838.1,	126.3,	2350.0,	0.0);	(409917.5, 3776832.0,	126.3,	2350.0,	0.0);
(409909.9, 3776832.6,	126.4,	2350.0,	0.0);	(409900.5, 3776833.7,	126.5,	2350.0,	0.0);
(409930.1, 3776845.7,	126.1,	2350.0,	0.0);	(409930.7, 3776839.3,	126.1,	2350.0,	0.0);
(409930.4, 3776834.0,	126.1,	2350.0,	0.0);	(409946.2, 3776834.3,	125.9,	2350.0,	0.0);
(409949.1, 3776839.3,	125.9,	2350.0,	0.0);	(409948.0, 3776846.6,	125.9,	2350.0,	0.0);
(409957.6, 3776847.5,	125.7,	2350.0,	0.0);	(409957.0, 3776840.8,	125.7,	2350.0,	0.0);
(409956.5, 3776835.5,	125.8,	2350.0,	0.0);	(409971.4, 3776836.4,	125.5,	2350.0,	0.0);
(409971.4, 3776841.6,	125.5,	2350.0,	0.0);	(409970.8, 3776849.5,	125.5,	2350.0,	0.0);
(409872.7, 3776813.8,	127.0,	2350.0,	0.0);	(409881.2, 3776814.4,	126.8,	2350.0,	0.0);
(409891.5, 3776814.1,	126.7,	2350.0,	0.0);	(409903.8, 3776814.7,	126.5,	2350.0,	0.0);
(409903.5, 3776807.1,	126.7,	2350.0,	0.0);	(409892.6, 3776807.7,	126.9,	2350.0,	0.0);
(409883.3, 3776808.8,	126.9,	2350.0,	0.0);	(409873.0, 3776807.4,	127.1,	2350.0,	0.0);
(409916.1, 3776815.9,	126.3,	2350.0,	0.0);	(409916.1, 3776808.3,	126.6,	2350.0,	0.0);
(409923.4, 3776813.5,	126.3,	2350.0,	0.0);	(409937.7, 3776813.5,	126.1,	2350.0,	0.0);
(409936.6, 3776808.6,	126.3,	2350.0,	0.0);	(409926.0, 3776807.7,	126.5,	2350.0,	0.0);
(409947.0, 3776755.7,	128.0,	2350.0,	0.0);	(409874.0, 3776786.4,	127.6,	2350.0,	0.0);
(409890.5, 3776785.0,	127.5,	2350.0,	0.0);	(409908.1, 3776781.5,	127.4,	2350.0,	0.0);
(409924.6, 3776782.6,	127.2,	2350.0,	0.0);	(409939.5, 3776784.0,	127.1,	2350.0,	0.0);
(409953.2, 3776784.0,	127.0,	2350.0,	0.0);	(409976.3, 3776782.9,	126.9,	2350.0,	0.0);
(409995.2, 3776788.4,	126.6,	2350.0,	0.0);	(409993.2, 3776743.0,	128.8,	2350.0,	0.0);
(409972.9, 3776739.5,	128.8,	2350.0,	0.0);	(409956.7, 3776741.6,	128.5,	2350.0,	0.0);
(409940.8, 3776743.0,	128.4,	2350.0,	0.0);	(409922.2, 3776744.0,	128.4,	2350.0,	0.0);
(409904.3, 3776744.4,	128.4,	2350.0,	0.0);	(409890.2, 3776744.0,	128.5,	2350.0,	0.0);
(409867.8, 3776741.9,	128.6,	2350.0,	0.0);	(409869.2, 3776714.7,	128.9,	2350.0,	0.0);
(409888.5, 3776711.6,	128.9,	2350.0,	0.0);	(409905.7, 3776708.2,	128.9,	2350.0,	0.0);
(409920.8, 3776709.2,	129.0,	2350.0,	0.0);	(409938.8, 3776710.9,	129.0,	2350.0,	0.0);
(409959.8, 3776707.8,	129.3,	2350.0,	0.0);	(409976.3, 3776716.1,	129.5,	2350.0,	0.0);
(409993.2, 3776716.5,	129.7,	2350.0,	0.0);	(409992.5, 3776665.8,	130.1,	2350.0,	0.0);
(409975.6, 3776666.2,	129.8,	2350.0,	0.0);	(409958.7, 3776674.4,	129.4,	2350.0,	0.0);
(409941.5, 3776671.7,	129.0,	2350.0,	0.0);	(409921.2, 3776671.7,	128.9,	2350.0,	0.0);

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

(409906.7, 3776672.0, 128.8, 2350.0, 0.0);	(409890.5, 3776672.0, 128.6, 2350.0, 0.0);
(409871.3, 3776668.2, 128.5, 2350.0, 0.0);	(410033.7, 3776917.2, 124.8, 2350.0, 0.0);
(410015.3, 3776922.6, 125.5, 2350.0, 0.0);	(409999.4, 3776919.3, 125.5, 2350.0, 0.0);
(410032.8, 3776965.6, 129.7, 2350.0, 0.0);	(410009.9, 3776965.2, 129.6, 2350.0, 0.0);
(409996.1, 3776966.5, 129.7, 2350.0, 0.0);	(409973.9, 3776961.5, 129.3, 2350.0, 0.0);
(409970.2, 3776992.0, 131.7, 2350.0, 0.0);	(409984.8, 3776988.2, 131.5, 2350.0, 0.0);
(410003.2, 3776989.9, 131.8, 2350.0, 0.0);	(410017.0, 3776992.0, 132.2, 2350.0, 0.0);
(410032.0, 3776992.4, 132.4, 2350.0, 0.0);	(409970.2, 3777032.5, 134.5, 2350.0, 0.0);
(409986.9, 3777040.8, 135.4, 2350.0, 0.0);	(410002.8, 3777037.9, 135.5, 2350.0, 0.0);
(410015.7, 3777034.2, 135.5, 2350.0, 0.0);	(410031.2, 3777035.4, 135.8, 2350.0, 0.0);
(410033.3, 3777065.5, 138.1, 2350.0, 0.0);	(410016.5, 3777067.2, 138.0, 2350.0, 0.0);
(410004.4, 3777066.3, 137.6, 2350.0, 0.0);	(409989.0, 3777065.5, 137.2, 2350.0, 0.0);
(409968.1, 3777069.7, 137.0, 2350.0, 0.0);	(410035.8, 3777111.0, 140.0, 2350.0, 0.0);
(410018.6, 3777112.3, 139.8, 2350.0, 0.0);	(410001.1, 3777108.1, 139.5, 2350.0, 0.0);
(409986.5, 3777113.5, 139.3, 2350.0, 0.0);	(409968.5, 3777110.6, 139.0, 2350.0, 0.0);
(409968.1, 3777138.2, 139.5, 2350.0, 0.0);	(409987.7, 3777136.9, 139.5, 2350.0, 0.0);
(410004.0, 3777138.6, 139.5, 2350.0, 0.0);	(410017.4, 3777140.3, 139.5, 2350.0, 0.0);
(410034.9, 3777138.6, 139.6, 2350.0, 0.0);	(410029.5, 3777186.6, 138.9, 2444.0, 0.0);
(410009.9, 3777186.6, 139.2, 2444.0, 0.0);	(409995.7, 3777185.0, 139.7, 2444.0, 0.0);
(409982.3, 3777184.6, 140.0, 2444.0, 0.0);	(409962.7, 3777186.2, 140.5, 2444.0, 0.0);
(409965.2, 3777225.9, 137.3, 2445.0, 0.0);	(409981.9, 3777225.9, 137.2, 2445.0, 0.0);
(409999.8, 3777228.4, 136.8, 2445.0, 0.0);	(410009.9, 3777228.4, 136.8, 2445.0, 0.0);
(410027.8, 3777228.4, 136.8, 2445.0, 0.0);	(410093.8, 3777099.8, 140.8, 2350.0, 0.0);
(410091.8, 3777121.5, 140.3, 2350.0, 0.0);	(410072.1, 3777123.1, 140.1, 2350.0, 0.0);
(410090.5, 3777141.5, 139.9, 2350.0, 0.0);	(410073.0, 3777160.8, 139.4, 2444.0, 0.0);
(410087.6, 3777171.6, 139.3, 2444.0, 0.0);	(410089.2, 3777190.8, 138.9, 2444.0, 0.0);
(410090.5, 3777205.0, 138.7, 2445.0, 0.0);	(410090.5, 3777227.6, 138.3, 2445.0, 0.0);
(409859.8, 3777331.5, 141.0, 2445.0, 0.0);	(409874.6, 3777332.1, 141.0, 2445.0, 0.0);
(409891.9, 3777334.5, 141.1, 2445.0, 0.0);	(409906.2, 3777335.7, 141.2, 2445.0, 0.0);
(409925.3, 3777335.7, 141.1, 2445.0, 0.0);	(409940.8, 3777335.1, 141.0, 2445.0, 0.0);
(409962.3, 3777335.7, 141.3, 2445.0, 0.0);	(409983.2, 3777335.7, 141.6, 2445.0, 0.0);
(410002.8, 3777335.1, 141.8, 2445.0, 0.0);	(410024.3, 3777332.8, 141.8, 2445.0, 0.0);
(410042.8, 3777333.9, 142.1, 2445.0, 0.0);	(410061.9, 3777332.1, 142.0, 2445.0, 0.0);
(410080.3, 3777329.8, 141.9, 2445.0, 0.0);	(410097.0, 3777323.8, 141.5, 2445.0, 0.0);
(410117.3, 3777315.5, 141.0, 2445.0, 0.0);	(410132.2, 3777316.0, 141.1, 2445.0, 0.0);
(410150.7, 3777316.0, 141.2, 2445.0, 0.0);	(410170.4, 3777317.2, 141.3, 2445.0, 0.0);
(410185.3, 3777317.2, 141.6, 2445.0, 0.0);	(410205.5, 3777319.6, 142.2, 2445.0, 0.0);
(410224.0, 3777320.2, 142.8, 2445.0, 0.0);	(410240.1, 3777318.4, 143.2, 2445.0, 0.0);
(410263.4, 3777314.3, 144.0, 2445.0, 0.0);	(410278.9, 3777311.9, 144.5, 2445.0, 0.0);
(410297.4, 3777311.9, 145.1, 2445.0, 0.0);	(410318.2, 3777313.1, 145.5, 2445.0, 0.0);
(410335.5, 3777313.1, 145.5, 2445.0, 0.0);	(410355.8, 3777310.7, 144.7, 2445.0, 0.0);
(410374.9, 3777311.9, 143.5, 2445.0, 0.0);	(410398.1, 3777313.1, 142.0, 2445.0, 0.0);
(410417.2, 3777313.1, 141.0, 2445.0, 0.0);	(410439.3, 3777313.1, 139.9, 2445.0, 0.0);
(410459.0, 3777311.9, 139.1, 2445.0, 0.0);	(410479.2, 3777312.5, 138.0, 2445.0, 0.0);
(409807.7, 3777335.1, 141.1, 2445.0, 0.0);	(409818.8, 3777369.0, 143.2, 2445.0, 0.0);
(409818.8, 3777385.8, 144.0, 2445.0, 0.0);	(410243.8, 3777560.9, 148.5, 2445.0, 0.0);
(410273.8, 3777560.9, 148.4, 2445.0, 0.0);	(410303.8, 3777560.9, 148.5, 2445.0, 0.0);
(410333.8, 3777560.9, 148.5, 2445.0, 0.0);	(410363.8, 3777560.9, 149.2, 2445.0, 0.0);

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r ***
*** AERMET - VERSION 14134 ***

*** Construction HRA
*** City of Hope

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*** 15:47:35
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(410393.8, 3777560.9,	150.0,	2445.0,	0.0);	(410423.8, 3777560.9,	150.6,	2445.0,	0.0);
(410453.8, 3777560.9,	151.3,	2445.0,	0.0);	(410483.8, 3777560.9,	152.0,	2445.0,	0.0);
(410123.3, 3777344.6,	142.9,	2445.0,	0.0);	(410153.3, 3777344.6,	142.5,	2445.0,	0.0);
(410183.3, 3777344.6,	142.3,	2445.0,	0.0);	(410213.3, 3777344.6,	142.5,	2445.0,	0.0);
(410243.3, 3777344.6,	142.7,	2445.0,	0.0);	(410273.3, 3777344.6,	142.7,	2445.0,	0.0);
(410303.3, 3777344.6,	142.5,	2445.0,	0.0);	(410333.3, 3777344.6,	142.1,	2445.0,	0.0);
(410363.3, 3777344.6,	139.1,	2445.0,	0.0);	(410393.3, 3777344.6,	136.1,	2445.0,	0.0);
(410423.3, 3777344.6,	134.1,	2445.0,	0.0);	(410453.3, 3777344.6,	133.0,	2445.0,	0.0);
(410483.3, 3777344.6,	131.9,	2445.0,	0.0);	(409853.3, 3777362.6,	143.2,	2445.0,	0.0);
(409883.3, 3777362.6,	143.6,	2445.0,	0.0);	(409913.3, 3777362.6,	144.2,	2445.0,	0.0);
(409943.3, 3777362.6,	144.8,	2445.0,	0.0);	(409973.3, 3777362.6,	145.3,	2445.0,	0.0);
(410003.3, 3777362.6,	145.7,	2445.0,	0.0);	(410033.3, 3777362.6,	145.8,	2445.0,	0.0);
(410063.3, 3777362.6,	145.2,	2445.0,	0.0);	(410093.3, 3777362.6,	144.6,	2445.0,	0.0);
(410123.3, 3777362.6,	144.0,	2445.0,	0.0);	(410153.3, 3777362.6,	143.3,	2445.0,	0.0);
(410183.3, 3777362.6,	142.8,	2445.0,	0.0);	(410213.3, 3777362.6,	142.5,	2445.0,	0.0);
(410243.3, 3777362.6,	142.3,	2445.0,	0.0);	(410273.3, 3777362.6,	141.7,	2445.0,	0.0);
(410303.3, 3777362.6,	141.1,	2445.0,	0.0);	(410333.3, 3777362.6,	140.1,	2445.0,	0.0);
(410363.3, 3777362.6,	136.4,	2445.0,	0.0);	(410393.3, 3777362.6,	132.6,	2445.0,	0.0);
(410423.3, 3777362.6,	130.3,	2445.0,	0.0);	(410453.3, 3777362.6,	129.4,	2445.0,	0.0);
(410483.3, 3777362.6,	128.6,	2445.0,	0.0);	(409853.3, 3777380.6,	144.1,	2445.0,	0.0);
(409883.3, 3777380.6,	144.6,	2445.0,	0.0);	(409913.3, 3777380.6,	145.3,	2445.0,	0.0);
(409943.3, 3777380.6,	146.0,	2445.0,	0.0);	(409973.3, 3777380.6,	146.4,	2445.0,	0.0);
(410003.3, 3777380.6,	146.7,	2445.0,	0.0);	(410033.3, 3777380.6,	146.6,	2445.0,	0.0);
(410063.3, 3777380.6,	145.8,	2445.0,	0.0);	(410093.3, 3777380.6,	145.1,	2445.0,	0.0);
(410123.3, 3777380.6,	144.3,	2445.0,	0.0);	(410153.3, 3777380.6,	143.6,	2445.0,	0.0);
(410183.3, 3777380.6,	142.9,	2445.0,	0.0);	(410213.3, 3777380.6,	142.5,	2445.0,	0.0);
(410243.3, 3777380.6,	142.1,	2445.0,	0.0);	(410273.3, 3777380.6,	141.6,	2445.0,	0.0);
(410303.3, 3777380.6,	140.9,	2445.0,	0.0);	(410333.3, 3777380.6,	140.0,	2445.0,	0.0);
(410363.3, 3777380.6,	136.8,	2445.0,	0.0);	(410393.3, 3777380.6,	133.7,	2445.0,	0.0);
(410423.3, 3777380.6,	132.0,	2445.0,	0.0);	(410453.3, 3777380.6,	131.6,	2445.0,	0.0);
(410483.3, 3777380.6,	131.3,	2445.0,	0.0);	(409853.3, 3777398.6,	144.8,	2445.0,	0.0);
(409883.3, 3777398.6,	145.1,	2445.0,	0.0);	(409913.3, 3777398.6,	145.7,	2445.0,	0.0);
(409943.3, 3777398.6,	146.2,	2445.0,	0.0);	(409973.3, 3777398.6,	146.4,	2445.0,	0.0);
(410003.3, 3777398.6,	146.6,	2445.0,	0.0);	(410033.3, 3777398.6,	146.4,	2445.0,	0.0);
(410063.3, 3777398.6,	145.7,	2445.0,	0.0);	(410093.3, 3777398.6,	144.9,	2445.0,	0.0);
(410123.3, 3777398.6,	144.2,	2445.0,	0.0);	(410153.3, 3777398.6,	143.5,	2445.0,	0.0);
(410183.3, 3777398.6,	142.9,	2445.0,	0.0);	(410213.3, 3777398.6,	142.5,	2445.0,	0.0);
(410243.3, 3777398.6,	142.1,	2445.0,	0.0);	(410273.3, 3777398.6,	141.7,	2445.0,	0.0);
(410303.3, 3777398.6,	141.2,	2445.0,	0.0);	(410333.3, 3777398.6,	140.5,	2445.0,	0.0);
(410363.3, 3777398.6,	138.2,	2445.0,	0.0);	(410393.3, 3777398.6,	136.0,	2445.0,	0.0);
(410423.3, 3777398.6,	135.0,	2445.0,	0.0);	(410453.3, 3777398.6,	135.1,	2445.0,	0.0);
(410483.3, 3777398.6,	135.2,	2445.0,	0.0);	(409853.3, 3777416.6,	145.5,	2445.0,	0.0);

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

(409883.3, 3777416.6,	145.7,	2445.0,	0.0);	(409913.3, 3777416.6,	146.1,	2445.0,	0.0);
(409943.3, 3777416.6,	146.5,	2445.0,	0.0);	(409973.3, 3777416.6,	146.5,	2445.0,	0.0);
(410003.3, 3777416.6,	146.5,	2445.0,	0.0);	(410033.3, 3777416.6,	146.2,	2445.0,	0.0);
(410063.3, 3777416.6,	145.5,	2445.0,	0.0);	(410093.3, 3777416.6,	144.7,	2445.0,	0.0);
(410123.3, 3777416.6,	144.1,	2445.0,	0.0);	(410153.3, 3777416.6,	143.5,	2445.0,	0.0);
(410183.3, 3777416.6,	142.9,	2445.0,	0.0);	(410213.3, 3777416.6,	142.5,	2445.0,	0.0);
(410243.3, 3777416.6,	142.1,	2445.0,	0.0);	(410273.3, 3777416.6,	141.8,	2445.0,	0.0);
(410303.3, 3777416.6,	141.4,	2445.0,	0.0);	(410333.3, 3777416.6,	141.0,	2445.0,	0.0);
(410363.3, 3777416.6,	139.6,	2445.0,	0.0);	(410393.3, 3777416.6,	138.3,	2445.0,	0.0);
(410423.3, 3777416.6,	137.9,	2445.0,	0.0);	(410453.3, 3777416.6,	138.5,	2445.0,	0.0);
(410483.3, 3777416.6,	139.0,	2445.0,	0.0);	(409853.3, 3777434.6,	146.1,	2445.0,	0.0);
(409883.3, 3777434.6,	146.2,	2445.0,	0.0);	(409913.3, 3777434.6,	146.4,	2445.0,	0.0);
(409943.3, 3777434.6,	146.7,	2445.0,	0.0);	(409973.3, 3777434.6,	146.6,	2445.0,	0.0);
(410003.3, 3777434.6,	146.4,	2445.0,	0.0);	(410033.3, 3777434.6,	146.1,	2445.0,	0.0);
(410063.3, 3777434.6,	145.3,	2445.0,	0.0);	(410093.3, 3777434.6,	144.5,	2445.0,	0.0);
(410123.3, 3777434.6,	143.9,	2445.0,	0.0);	(410153.3, 3777434.6,	143.4,	2445.0,	0.0);
(410183.3, 3777434.6,	142.9,	2445.0,	0.0);	(410213.3, 3777434.6,	142.5,	2445.0,	0.0);
(410243.3, 3777434.6,	142.2,	2445.0,	0.0);	(410273.3, 3777434.6,	141.9,	2445.0,	0.0);
(410303.3, 3777434.6,	141.7,	2445.0,	0.0);	(410333.3, 3777434.6,	141.4,	2445.0,	0.0);
(410363.3, 3777434.6,	141.0,	2445.0,	0.0);	(410393.3, 3777434.6,	140.6,	2445.0,	0.0);
(410423.3, 3777434.6,	140.9,	2445.0,	0.0);	(410453.3, 3777434.6,	141.9,	2445.0,	0.0);
(410483.3, 3777434.6,	142.9,	2445.0,	0.0);	(409853.3, 3777452.6,	146.8,	2445.0,	0.0);
(409883.3, 3777452.6,	146.7,	2445.0,	0.0);	(409913.3, 3777452.6,	146.8,	2445.0,	0.0);
(409943.3, 3777452.6,	146.9,	2445.0,	0.0);	(409973.3, 3777452.6,	146.6,	2445.0,	0.0);
(410003.3, 3777452.6,	146.3,	2445.0,	0.0);	(410033.3, 3777452.6,	145.9,	2445.0,	0.0);
(410063.3, 3777452.6,	145.1,	2445.0,	0.0);	(410093.3, 3777452.6,	144.3,	2445.0,	0.0);
(410123.3, 3777452.6,	143.8,	2445.0,	0.0);	(410153.3, 3777452.6,	143.4,	2445.0,	0.0);
(410183.3, 3777452.6,	142.9,	2445.0,	0.0);	(410213.3, 3777452.6,	142.5,	2445.0,	0.0);
(410243.3, 3777452.6,	142.2,	2445.0,	0.0);	(410273.3, 3777452.6,	142.0,	2445.0,	0.0);
(410303.3, 3777452.6,	141.9,	2445.0,	0.0);	(410333.3, 3777452.6,	141.9,	2445.0,	0.0);
(410363.3, 3777452.6,	142.4,	2445.0,	0.0);	(410393.3, 3777452.6,	142.8,	2445.0,	0.0);
(410423.3, 3777452.6,	143.8,	2445.0,	0.0);	(410453.3, 3777452.6,	145.3,	2445.0,	0.0);
(410483.3, 3777452.6,	146.8,	2445.0,	0.0);	(409853.3, 3777470.6,	147.4,	2445.0,	0.0);
(409883.3, 3777470.6,	147.2,	2445.0,	0.0);	(409913.3, 3777470.6,	147.3,	2445.0,	0.0);
(409943.3, 3777470.6,	147.3,	2445.0,	0.0);	(409973.3, 3777470.6,	147.1,	2445.0,	0.0);
(410003.3, 3777470.6,	146.8,	2445.0,	0.0);	(410033.3, 3777470.6,	146.3,	2445.0,	0.0);
(410063.3, 3777470.6,	145.6,	2445.0,	0.0);	(410093.3, 3777470.6,	144.9,	2445.0,	0.0);
(410123.3, 3777470.6,	144.4,	2445.0,	0.0);	(410153.3, 3777470.6,	144.0,	2445.0,	0.0);
(410183.3, 3777470.6,	143.6,	2445.0,	0.0);	(410213.3, 3777470.6,	143.2,	2445.0,	0.0);
(410243.3, 3777470.6,	142.8,	2445.0,	0.0);	(410273.3, 3777470.6,	142.7,	2445.0,	0.0);
(410303.3, 3777470.6,	142.7,	2445.0,	0.0);	(410333.3, 3777470.6,	142.8,	2445.0,	0.0);
(410363.3, 3777470.6,	143.6,	2445.0,	0.0);	(410393.3, 3777470.6,	144.4,	2445.0,	0.0);
(410423.3, 3777470.6,	145.5,	2445.0,	0.0);	(410453.3, 3777470.6,	147.0,	2445.0,	0.0);
(410483.3, 3777470.6,	148.5,	2445.0,	0.0);	(409853.3, 3777488.6,	147.9,	2445.0,	0.0);
(409883.3, 3777488.6,	147.9,	2445.0,	0.0);	(409913.3, 3777488.6,	148.0,	2445.0,	0.0);
(409943.3, 3777488.6,	148.1,	2445.0,	0.0);	(409973.3, 3777488.6,	148.0,	2445.0,	0.0);
(410003.3, 3777488.6,	147.8,	2445.0,	0.0);	(410033.3, 3777488.6,	147.5,	2445.0,	0.0);
(410063.3, 3777488.6,	146.9,	2445.0,	0.0);	(410093.3, 3777488.6,	146.2,	2445.0,	0.0);

**Model Output -Residential Receptors
Unit Emission Rates (1 g/s)**

(409908.9, 3777173.4,	140.9,	2350.0,	6.1);	(409930.4, 3777173.0,	140.7,	2350.0,	6.1);
(409932.0, 3777156.8,	140.1,	2350.0,	6.1);	(409910.1, 3777155.5,	140.2,	2350.0,	6.1);
(409893.5, 3777155.5,	140.2,	2350.0,	6.1);	(409878.9, 3777156.8,	140.3,	2350.0,	6.1);
(409870.0, 3777157.2,	140.4,	2350.0,	6.1);	(409870.4, 3777143.0,	139.6,	2350.0,	6.1);
(409879.7, 3777144.6,	139.7,	2350.0,	6.1);	(409896.3, 3777144.2,	139.7,	2350.0,	6.1);
(409912.1, 3777145.0,	139.7,	2350.0,	6.1);	(409930.0, 3777143.4,	139.6,	2350.0,	6.1);
(409931.6, 3777128.8,	139.1,	2350.0,	6.1);	(409911.3, 3777126.0,	138.9,	2350.0,	6.1);
(409895.9, 3777126.8,	138.9,	2350.0,	6.1);	(409879.3, 3777125.1,	138.7,	2350.0,	6.1);
(409872.4, 3777124.7,	138.7,	2350.0,	6.1);	(409871.2, 3777113.8,	138.1,	2350.0,	6.1);
(409883.8, 3777115.4,	138.3,	2350.0,	6.1);	(409898.0, 3777115.8,	138.4,	2350.0,	6.1);
(409912.1, 3777117.0,	138.6,	2350.0,	6.1);	(409931.2, 3777116.2,	138.7,	2350.0,	6.1);
(409931.2, 3777096.8,	138.0,	2350.0,	6.1);	(409912.1, 3777096.0,	137.7,	2350.0,	6.1);
(409896.8, 3777096.8,	137.5,	2350.0,	6.1);	(409885.8, 3777097.2,	137.4,	2350.0,	6.1);
(409871.2, 3777096.8,	137.2,	2350.0,	6.1);	(409934.0, 3777085.0,	137.3,	2350.0,	6.1);
(409911.7, 3777084.6,	137.0,	2350.0,	6.1);	(409896.8, 3777084.6,	136.8,	2350.0,	6.1);
(409885.4, 3777086.2,	136.7,	2350.0,	6.1);	(409871.2, 3777085.0,	136.5,	2350.0,	6.1);
(409872.8, 3777066.8,	135.3,	2350.0,	6.1);	(409892.7, 3777065.2,	135.5,	2350.0,	6.1);
(409911.3, 3777066.0,	135.8,	2350.0,	6.1);	(409931.2, 3777067.2,	136.1,	2350.0,	6.1);
(409881.8, 3777064.4,	135.3,	2350.0,	6.1);	(409932.4, 3777052.6,	135.2,	2350.0,	6.1);
(409934.0, 3777044.5,	134.7,	2350.0,	6.1);	(409934.8, 3777030.3,	133.8,	2350.0,	6.1);
(409934.4, 3777023.4,	133.3,	2350.0,	6.1);	(409934.4, 3777012.5,	132.6,	2350.0,	6.1);
(409934.4, 3777003.6,	132.1,	2350.0,	6.1);	(409934.8, 3776991.4,	131.3,	2350.0,	6.1);
(409934.8, 3776983.7,	130.8,	2350.0,	6.1);	(409933.2, 3776973.6,	130.2,	2350.0,	6.1);
(409933.2, 3776963.5,	129.5,	2350.0,	6.1);	(409931.2, 3776955.0,	129.0,	2350.0,	6.1);
(409935.6, 3776945.2,	128.4,	2350.0,	6.1);	(409908.5, 3776959.8,	129.3,	2350.0,	6.1);
(409898.4, 3776959.8,	129.2,	2350.0,	6.1);	(409889.0, 3776960.2,	129.2,	2350.0,	6.1);
(409880.5, 3776960.2,	129.2,	2350.0,	6.1);	(409872.0, 3776961.0,	129.2,	2350.0,	6.1);
(409868.8, 3776984.1,	130.3,	2350.0,	6.1);	(409879.3, 3776983.3,	130.3,	2350.0,	6.1);
(409890.3, 3776983.3,	130.4,	2350.0,	6.1);	(409899.6, 3776984.5,	130.6,	2350.0,	6.1);
(409907.7, 3776984.5,	130.6,	2350.0,	6.1);	(409907.7, 3777011.7,	132.2,	2350.0,	6.1);
(409898.0, 3777010.5,	132.0,	2350.0,	6.1);	(409889.0, 3777012.1,	132.0,	2350.0,	6.1);
(409878.9, 3777010.9,	131.8,	2350.0,	6.1);	(409870.4, 3777010.9,	131.7,	2350.0,	6.1);
(409869.6, 3777032.4,	133.0,	2350.0,	6.1);	(409878.5, 3777033.2,	133.2,	2350.0,	6.1);
(409889.9, 3777032.8,	133.3,	2350.0,	6.1);	(409899.6, 3777032.8,	133.5,	2350.0,	6.1);
(409910.5, 3777034.4,	133.7,	2350.0,	6.1);	(409871.9, 3776922.7,	127.5,	2350.0,	6.1);
(409878.6, 3776922.1,	127.4,	2350.0,	6.1);	(409893.2, 3776921.8,	127.3,	2350.0,	6.1);
(409903.8, 3776923.3,	127.3,	2350.0,	6.1);	(409908.5, 3776923.3,	127.2,	2350.0,	6.1);
(409916.6, 3776922.7,	127.1,	2350.0,	6.1);	(409923.4, 3776921.6,	127.0,	2350.0,	6.1);
(409931.3, 3776922.1,	127.0,	2350.0,	6.1);	(409939.8, 3776921.3,	126.8,	2350.0,	6.1);
(409947.1, 3776920.7,	126.7,	2350.0,	6.1);	(409956.8, 3776909.3,	125.7,	2350.0,	6.1);
(409963.2, 3776909.0,	125.5,	2350.0,	6.1);	(409873.3, 3776867.4,	126.9,	2350.0,	6.1);
(409878.3, 3776868.3,	126.8,	2350.0,	6.1);	(409891.2, 3776870.9,	126.7,	2350.0,	6.1);
(409901.4, 3776869.2,	126.5,	2350.0,	6.1);	(409909.0, 3776868.9,	126.4,	2350.0,	6.1);
(409915.5, 3776868.3,	126.3,	2350.0,	6.1);	(409926.6, 3776869.7,	126.2,	2350.0,	6.1);
(409933.6, 3776869.4,	126.1,	2350.0,	6.1);	(409941.2, 3776869.2,	126.0,	2350.0,	6.1);
(409952.1, 3776866.8,	125.8,	2350.0,	6.1);	(409963.5, 3776864.5,	125.6,	2350.0,	6.1);
(409972.6, 3776864.5,	125.4,	2350.0,	6.1);	(409982.2, 3776864.5,	125.2,	2350.0,	6.1);
(409988.1, 3776869.4,	125.0,	2350.0,	6.1);	(409873.6, 3776845.7,	126.9,	2350.0,	6.1);

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

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*** AERMET - VERSION 14134 ***

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*** City of Hope

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(409882.1, 3776846.0,	126.8,	2350.0,	6.1);	(409889.4, 3776845.1,	126.7,	2350.0,	6.1);
(409889.4, 3776838.1,	126.7,	2350.0,	6.1);	(409888.5, 3776832.6,	126.7,	2350.0,	6.1);
(409880.9, 3776831.4,	126.8,	2350.0,	6.1);	(409871.9, 3776832.0,	126.9,	2350.0,	6.1);
(409900.0, 3776846.9,	126.5,	2350.0,	6.1);	(409909.6, 3776846.6,	126.4,	2350.0,	6.1);
(409919.6, 3776845.7,	126.3,	2350.0,	6.1);	(409918.1, 3776838.1,	126.3,	2350.0,	6.1);
(409917.5, 3776832.0,	126.3,	2350.0,	6.1);	(409909.9, 3776832.6,	126.4,	2350.0,	6.1);
(409900.5, 3776833.7,	126.5,	2350.0,	6.1);	(409930.1, 3776845.7,	126.1,	2350.0,	6.1);
(409930.7, 3776839.3,	126.1,	2350.0,	6.1);	(409930.4, 3776834.0,	126.1,	2350.0,	6.1);
(409946.2, 3776834.3,	125.9,	2350.0,	6.1);	(409949.1, 3776839.3,	125.9,	2350.0,	6.1);
(409948.0, 3776846.6,	125.9,	2350.0,	6.1);	(409957.6, 3776847.5,	125.7,	2350.0,	6.1);
(409957.0, 3776840.8,	125.7,	2350.0,	6.1);	(409956.5, 3776835.5,	125.8,	2350.0,	6.1);
(409971.4, 3776836.4,	125.5,	2350.0,	6.1);	(409971.4, 3776841.6,	125.5,	2350.0,	6.1);
(409970.8, 3776849.5,	125.5,	2350.0,	6.1);	(409872.7, 3776813.8,	127.0,	2350.0,	6.1);
(409881.2, 3776814.4,	126.8,	2350.0,	6.1);	(409891.5, 3776814.1,	126.7,	2350.0,	6.1);
(409903.8, 3776814.7,	126.5,	2350.0,	6.1);	(409903.5, 3776807.1,	126.7,	2350.0,	6.1);
(409892.6, 3776807.7,	126.9,	2350.0,	6.1);	(409883.3, 3776808.8,	126.9,	2350.0,	6.1);
(409873.0, 3776807.4,	127.1,	2350.0,	6.1);	(409916.1, 3776815.9,	126.3,	2350.0,	6.1);
(409916.1, 3776808.3,	126.6,	2350.0,	6.1);	(409923.4, 3776813.5,	126.3,	2350.0,	6.1);
(409937.7, 3776813.5,	126.1,	2350.0,	6.1);	(409936.6, 3776808.6,	126.3,	2350.0,	6.1);
(409926.0, 3776807.7,	126.5,	2350.0,	6.1);	(409824.1, 3777166.7,	140.8,	2350.0,	0.0);
(409815.7, 3777165.7,	140.7,	2350.0,	0.0);	(409806.4, 3777167.2,	140.8,	2350.0,	0.0);
(409803.5, 3777148.5,	139.6,	2350.0,	0.0);	(409804.5, 3777138.7,	139.0,	2350.0,	0.0);
(409805.4, 3777126.4,	138.2,	2350.0,	0.0);	(409804.5, 3777109.3,	137.1,	2350.0,	0.0);
(409812.8, 3777109.3,	137.2,	2350.0,	0.0);	(409820.1, 3777106.8,	137.1,	2350.0,	0.0);
(409818.7, 3777080.8,	135.6,	2350.0,	0.0);	(409805.4, 3777079.3,	135.3,	2350.0,	0.0);
(409790.7, 3777068.5,	134.6,	2350.0,	0.0);	(409788.8, 3777059.2,	134.1,	2350.0,	0.0);
(409789.2, 3777048.9,	133.5,	2350.0,	0.0);	(409789.2, 3777037.6,	132.9,	2350.0,	0.0);
(409789.7, 3777028.3,	132.4,	2350.0,	0.0);	(409788.8, 3777016.1,	131.7,	2350.0,	0.0);
(409787.8, 3777004.8,	131.1,	2350.0,	0.0);	(409786.8, 3776994.5,	130.7,	2350.0,	0.0);
(409820.6, 3777019.0,	132.0,	2350.0,	0.0);	(409819.7, 3777010.2,	131.5,	2350.0,	0.0);
(409817.7, 3776982.2,	130.1,	2350.0,	0.0);	(409802.0, 3776979.3,	130.0,	2350.0,	0.0);
(409818.2, 3777056.8,	134.2,	2350.0,	0.0);	(409818.2, 3777047.0,	133.6,	2350.0,	0.0);
(409804.9, 3776956.2,	129.0,	2350.0,	0.0);	(409805.4, 3776946.9,	128.6,	2350.0,	0.0);
(409806.4, 3776934.6,	128.1,	2350.0,	0.0);	(409808.4, 3776924.8,	127.6,	2350.0,	0.0);
(409825.0, 3776901.7,	127.0,	2350.0,	0.0);	(409821.1, 3776888.5,	127.1,	2350.0,	0.0);
(409799.0, 3776889.5,	127.2,	2350.0,	0.0);	(409802.0, 3776902.2,	127.1,	2350.0,	0.0);
(409809.8, 3776896.8,	127.1,	2350.0,	0.0);	(409824.1, 3777166.7,	140.8,	2350.0,	6.1);
(409815.7, 3777165.7,	140.7,	2350.0,	6.1);	(409806.4, 3777167.2,	140.8,	2350.0,	6.1);
(409803.5, 3777148.5,	139.6,	2350.0,	6.1);	(409804.5, 3777138.7,	139.0,	2350.0,	6.1);
(409805.4, 3777126.4,	138.2,	2350.0,	6.1);	(409804.5, 3777109.3,	137.1,	2350.0,	6.1);
(409812.8, 3777109.3,	137.2,	2350.0,	6.1);	(409820.1, 3777106.8,	137.1,	2350.0,	6.1);
(409818.7, 3777080.8,	135.6,	2350.0,	6.1);	(409805.4, 3777079.3,	135.3,	2350.0,	6.1);

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

(409790.7, 3777068.5,	134.6,	2350.0,	6.1);	(409788.8, 3777059.2,	134.1,	2350.0,	6.1);
(409789.2, 3777048.9,	133.5,	2350.0,	6.1);	(409789.2, 3777037.6,	132.9,	2350.0,	6.1);
(409789.7, 3777028.3,	132.4,	2350.0,	6.1);	(409788.8, 3777016.1,	131.7,	2350.0,	6.1);
(409787.8, 3777004.8,	131.1,	2350.0,	6.1);	(409786.8, 3776994.5,	130.7,	2350.0,	6.1);
(409820.6, 3777019.0,	132.0,	2350.0,	6.1);	(409819.7, 3777010.2,	131.5,	2350.0,	6.1);
(409817.7, 3776982.2,	130.1,	2350.0,	6.1);	(409802.0, 3776979.3,	130.0,	2350.0,	6.1);
(409818.2, 3777056.8,	134.2,	2350.0,	6.1);	(409818.2, 3777047.0,	133.6,	2350.0,	6.1);
(409804.9, 3776956.2,	129.0,	2350.0,	6.1);	(409805.4, 3776946.9,	128.6,	2350.0,	6.1);
(409806.4, 3776934.6,	128.1,	2350.0,	6.1);	(409808.4, 3776924.8,	127.6,	2350.0,	6.1);
(409825.0, 3776901.7,	127.0,	2350.0,	6.1);	(409821.1, 3776888.5,	127.1,	2350.0,	6.1);
(409799.0, 3776889.5,	127.2,	2350.0,	6.1);	(409802.0, 3776902.2,	127.1,	2350.0,	6.1);
(409809.8, 3776896.8,	127.1,	2350.0,	6.1);	(409789.4, 3777209.4,	141.0,	2444.0,	6.1);
(409799.1, 3777210.2,	141.0,	2444.0,	6.1);	(409807.6, 3777209.8,	141.0,	2444.0,	6.1);
(409819.0, 3777209.8,	140.9,	2444.0,	6.1);	(409820.2, 3777230.1,	140.0,	2444.0,	6.1);
(409807.6, 3777230.9,	140.0,	2444.0,	6.1);	(409797.5, 3777230.5,	140.1,	2444.0,	6.1);
(409788.6, 3777231.3,	140.1,	2444.0,	6.1);				

Model Output -Residential Receptors Unit Emission Rates (1 g/s)

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
 LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	-- RECEPTOR LOCATION -- XR (METERS) YR (METERS)		DISTANCE (METERS)
L0000053	409820.2	3777230.1	-1.06
L0000053	409820.2	3777230.1	-1.06
L0000054	409819.0	3777209.8	0.67
L0000054	409819.0	3777209.8	0.67
L0000055	409824.1	3777166.7	-0.30
L0000055	409824.1	3777166.7	-0.30
L0000056	409824.1	3777166.7	-2.48
L0000056	409824.1	3777166.7	-2.48
L0000058	409820.1	3777106.8	-0.84
L0000058	409820.1	3777106.8	-0.84
L0000059	409818.7	3777080.8	0.89
L0000059	409818.7	3777080.8	0.89
L0000062	409820.6	3777019.0	-0.43
L0000062	409819.7	3777010.2	-0.16
L0000062	409820.6	3777019.0	-0.43
L0000062	409819.7	3777010.2	-0.16
L0000066	409825.0	3776901.7	-0.23
L0000066	409825.0	3776901.7	-0.23
L0000067	409825.0	3776901.7	-3.45
L0000067	409821.1	3776888.5	-1.21
L0000067	409825.0	3776901.7	-3.45
L0000067	409821.1	3776888.5	-1.21
L0000078	409822.5	3776627.3	-2.54
L0000083	409822.4	3776502.9	-1.59
L0000083	409822.4	3776519.1	-0.01

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

410090.50	3777141.53	1.11203	410072.95	3777160.75	0.80724
410087.58	3777171.61	0.99600	410089.25	3777190.83	0.98448
410090.50	3777205.04	0.96629	410090.50	3777227.60	0.86006
409859.75	3777331.55	0.11301	409874.65	3777332.15	0.11761

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

409999.84	3777228.43	2.92417	410009.87	3777228.43	2.93269
410027.83	3777228.43	2.94559	410093.84	3777099.76	0.58517
410091.75	3777121.48	0.65703	410072.12	3777123.15	0.68828
410090.50	3777141.53	0.75202	410072.95	3777160.75	0.90259
410087.58	3777171.61	0.99434	410089.25	3777190.83	1.27648
410090.50	3777205.04	1.63281	410090.50	3777227.60	2.88580
409859.75	3777331.55	0.95084	409874.65	3777332.15	1.01874

Model Output -Residential Receptors
Unit Emission Rates (1 g/s)

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1124 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 22 Calm Hours Identified

A Total of 1102 Missing Hours Identified (2.51 Percent)

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****
 *** NONE ***

*** AERMOD Finishes Successfully ***

Model Output - Elementary School Receptors Unit Emission Rates (1 g/s)

****Output Options Selected:**

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

****NOTE:** The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

****Misc. Inputs:** Base Elev. for Pot. Temp. Profile (m MSL) = 182.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

****Approximate Storage Requirements of Model = 3.8 MB of RAM.**

****Detailed Error/Message File:** CODU01.err
****File for Summary of Results:** CODU01.sum

Model Output - Elementary School Receptors
Unit Emission Rates (1 g/s)

L0000039	0	0.10204E-01	410146.3	3777260.8	139.1	4.15	11.16	1.93	YES	HRDOW
L0000040	0	0.10204E-01	410122.3	3777260.8	138.6	4.15	11.16	1.93	YES	HRDOW
L0000041	0	0.10204E-01	410098.3	3777260.9	138.1	4.15	11.16	1.93	YES	HRDOW
L0000042	0	0.10204E-01	410074.3	3777260.9	137.1	4.15	11.16	1.93	YES	HRDOW
L0000043	0	0.10204E-01	410050.3	3777261.0	136.1	4.15	11.16	1.93	YES	HRDOW
L0000044	0	0.10204E-01	410026.3	3777261.0	135.1	4.15	11.16	1.93	YES	HRDOW
L0000045	0	0.10204E-01	410002.3	3777261.1	134.8	4.15	11.16	1.93	YES	HRDOW
L0000046	0	0.10204E-01	409978.3	3777261.1	134.6	4.15	11.16	1.93	YES	HRDOW
L0000047	0	0.10204E-01	409954.3	3777261.2	134.5	4.15	11.16	1.93	YES	HRDOW
L0000048	0	0.10204E-01	409930.3	3777261.2	135.2	4.15	11.16	1.93	YES	HRDOW
L0000049	0	0.10204E-01	409906.3	3777261.3	136.2	4.15	11.16	1.93	YES	HRDOW
L0000050	0	0.10204E-01	409882.3	3777261.3	137.3	4.15	11.16	1.93	YES	HRDOW
L0000051	0	0.10204E-01	409858.3	3777261.4	138.1	4.15	11.16	1.93	YES	HRDOW
L0000052	0	0.10204E-01	409843.0	3777252.7	138.7	4.15	11.16	1.93	YES	HRDOW
L0000053	0	0.10204E-01	409843.1	3777228.7	139.9	4.15	11.16	1.93	YES	HRDOW
L0000054	0	0.10204E-01	409843.1	3777204.7	141.1	4.15	11.16	1.93	YES	HRDOW
L0000055	0	0.10204E-01	409843.1	3777180.7	141.7	4.15	11.16	1.93	YES	HRDOW
L0000056	0	0.10204E-01	409843.2	3777156.7	140.3	4.15	11.16	1.93	YES	HRDOW
L0000057	0	0.10204E-01	409843.2	3777132.7	138.9	4.15	11.16	1.93	YES	HRDOW
L0000058	0	0.10204E-01	409843.2	3777108.7	137.5	4.15	11.16	1.93	YES	HRDOW
L0000059	0	0.10204E-01	409843.3	3777084.7	136.1	4.15	11.16	1.93	YES	HRDOW
L0000060	0	0.10204E-01	409843.3	3777060.7	134.6	4.15	11.16	1.93	YES	HRDOW
L0000061	0	0.10204E-01	409843.3	3777036.7	133.2	4.15	11.16	1.93	YES	HRDOW
L0000062	0	0.10204E-01	409843.4	3777012.7	131.7	4.15	11.16	1.93	YES	HRDOW
L0000063	0	0.10204E-01	409843.4	3776988.7	130.4	4.15	11.16	1.93	YES	HRDOW
L0000064	0	0.10204E-01	409843.4	3776964.7	129.4	4.15	11.16	1.93	YES	HRDOW
L0000065	0	0.10204E-01	409843.5	3776940.7	128.4	4.15	11.16	1.93	YES	HRDOW
L0000066	0	0.10204E-01	409843.5	3776916.7	127.3	4.15	11.16	1.93	YES	HRDOW
L0000067	0	0.10204E-01	409843.5	3776892.7	127.0	4.15	11.16	1.93	YES	HRDOW
L0000068	0	0.10204E-01	409843.5	3776868.7	127.1	4.15	11.16	1.93	YES	HRDOW
L0000069	0	0.10204E-01	409843.6	3776844.7	127.2	4.15	11.16	1.93	YES	HRDOW
L0000070	0	0.10204E-01	409843.6	3776820.7	127.3	4.15	11.16	1.93	YES	HRDOW
L0000071	0	0.10204E-01	409843.6	3776796.7	127.7	4.15	11.16	1.93	YES	HRDOW
L0000072	0	0.10204E-01	409843.7	3776772.7	128.2	4.15	11.16	1.93	YES	HRDOW
L0000073	0	0.10204E-01	409843.7	3776748.7	128.7	4.15	11.16	1.93	YES	HRDOW
L0000074	0	0.10204E-01	409843.7	3776724.7	129.2	4.15	11.16	1.93	YES	HRDOW
L0000075	0	0.10204E-01	409843.8	3776700.7	128.9	4.15	11.16	1.93	YES	HRDOW
L0000076	0	0.10204E-01	409843.8	3776676.7	128.6	4.15	11.16	1.93	YES	HRDOW
L0000077	0	0.10204E-01	409843.8	3776652.7	128.3	4.15	11.16	1.93	YES	HRDOW
L0000078	0	0.10204E-01	409843.9	3776628.7	128.0	4.15	11.16	1.93	YES	HRDOW
L0000079	0	0.10204E-01	409843.9	3776604.7	127.9	4.15	11.16	1.93	YES	HRDOW
L0000080	0	0.10204E-01	409843.9	3776580.7	127.7	4.15	11.16	1.93	YES	HRDOW
L0000081	0	0.10204E-01	409844.0	3776556.7	127.6	4.15	11.16	1.93	YES	HRDOW
L0000082	0	0.10204E-01	409844.0	3776532.7	127.7	4.15	11.16	1.93	YES	HRDOW
L0000083	0	0.10204E-01	409844.0	3776508.7	128.4	4.15	11.16	1.93	YES	HRDOW
L0000084	0	0.10204E-01	409844.1	3776484.7	129.1	4.15	11.16	1.93	YES	HRDOW
L0000085	0	0.10204E-01	409844.1	3776460.7	129.9	4.15	11.16	1.93	YES	HRDOW
L0000086	0	0.10204E-01	409844.1	3776436.7	129.8	4.15	11.16	1.93	YES	HRDOW
L0000087	0	0.10204E-01	409844.2	3776412.7	128.7	4.15	11.16	1.93	YES	HRDOW
L0000088	0	0.10204E-01	409844.2	3776388.7	127.5	4.15	11.16	1.93	YES	HRDOW
L0000089	0	0.10204E-01	409844.2	3776364.7	126.4	4.15	11.16	1.93	YES	HRDOW

Model Output - Elementary School Receptors
Unit Emission Rates (1 g/s)

L0000090	0	0.10204E-01	409844.3	3776340.7	125.8	4.15	11.16	1.93	YES	HRDOW
L0000091	0	0.10204E-01	409844.3	3776316.7	125.4	4.15	11.16	1.93	YES	HRDOW
L0000092	0	0.10204E-01	409844.3	3776292.7	125.1	4.15	11.16	1.93	YES	HRDOW
L0000093	0	0.10204E-01	409844.4	3776268.7	124.7	4.15	11.16	1.93	YES	HRDOW
L0000094	0	0.10204E-01	409844.4	3776244.7	124.1	4.15	11.16	1.93	YES	HRDOW
L0000095	0	0.10204E-01	409844.4	3776220.7	123.4	4.15	11.16	1.93	YES	HRDOW
L0000096	0	0.10204E-01	409844.4	3776196.7	122.8	4.15	11.16	1.93	YES	HRDOW
L0000097	0	0.10204E-01	409844.4	3776172.8	122.1	4.15	11.16	1.93	YES	HRDOW
L0000098	0	0.10204E-01	409836.1	3776150.2	121.6	4.15	11.16	1.93	YES	HRDOW

Model Output - Elementary School Receptors Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r *** *** Construction HRA
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 *** MODELOPTs: RegDFault CONC ELEV URBAN

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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L0000007	10137915.	PAREA3 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 ,
		, L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 ,
		L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 ,
		L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 ,
		L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 ,
		L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 ,
		L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 ,
		L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 ,
		L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 ,
		L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 ,
		L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
		L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,
		L0000096 , L0000097 , L0000098 ,

Model Output - Elementary School Receptors Unit Emission Rates (1 g/s)

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA3 ; SOURCE TYPE = AREAPOLY :

HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000001 through L0000098 ; SOURCE TYPE = VOLUME :

HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR	HRDOW	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

Model Output - Elementary School Receptors
Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r *** *** Construction HRA
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(409645.7, 3776662.9, 128.8, 2350.0, 0.0);	(409665.7, 3776662.9, 128.5, 2350.0, 0.0);
(409685.7, 3776662.9, 128.2, 2350.0, 0.0);	(409705.7, 3776662.9, 128.0, 2350.0, 0.0);
(409725.7, 3776662.9, 128.1, 2350.0, 0.0);	(409745.7, 3776662.9, 128.3, 2350.0, 0.0);
(409765.7, 3776662.9, 128.5, 2350.0, 0.0);	(409785.7, 3776662.9, 128.7, 2350.0, 0.0);
(409805.7, 3776662.9, 128.6, 2350.0, 0.0);	(409825.7, 3776662.9, 128.5, 2350.0, 0.0);
(409645.7, 3776682.9, 129.4, 2350.0, 0.0);	(409665.7, 3776682.9, 129.2, 2350.0, 0.0);
(409685.7, 3776682.9, 128.9, 2350.0, 0.0);	(409705.7, 3776682.9, 128.7, 2350.0, 0.0);
(409725.7, 3776682.9, 128.7, 2350.0, 0.0);	(409745.7, 3776682.9, 128.8, 2350.0, 0.0);
(409765.7, 3776682.9, 129.0, 2350.0, 0.0);	(409785.7, 3776682.9, 129.1, 2350.0, 0.0);
(409805.7, 3776682.9, 129.0, 2350.0, 0.0);	(409825.7, 3776682.9, 128.8, 2350.0, 0.0);
(409645.7, 3776702.9, 130.1, 2350.0, 0.0);	(409665.7, 3776702.9, 129.8, 2350.0, 0.0);
(409685.7, 3776702.9, 129.6, 2350.0, 0.0);	(409705.7, 3776702.9, 129.3, 2350.0, 0.0);
(409725.7, 3776702.9, 129.3, 2350.0, 0.0);	(409745.7, 3776702.9, 129.4, 2350.0, 0.0);
(409765.7, 3776702.9, 129.5, 2350.0, 0.0);	(409785.7, 3776702.9, 129.5, 2350.0, 0.0);
(409805.7, 3776702.9, 129.3, 2350.0, 0.0);	(409825.7, 3776702.9, 129.1, 2350.0, 0.0);
(409645.7, 3776722.9, 130.7, 2350.0, 0.0);	(409665.7, 3776722.9, 130.5, 2350.0, 0.0);
(409685.7, 3776722.9, 130.2, 2350.0, 0.0);	(409705.7, 3776722.9, 130.0, 2350.0, 0.0);
(409725.7, 3776722.9, 129.9, 2350.0, 0.0);	(409745.7, 3776722.9, 129.9, 2350.0, 0.0);
(409765.7, 3776722.9, 129.9, 2350.0, 0.0);	(409785.7, 3776722.9, 130.0, 2350.0, 0.0);
(409805.7, 3776722.9, 129.7, 2350.0, 0.0);	(409825.7, 3776722.9, 129.5, 2350.0, 0.0);
(409645.7, 3776742.9, 130.8, 2350.0, 0.0);	(409665.7, 3776742.9, 130.5, 2350.0, 0.0);
(409685.7, 3776742.9, 130.2, 2350.0, 0.0);	(409705.7, 3776742.9, 129.9, 2350.0, 0.0);
(409725.7, 3776742.9, 129.8, 2350.0, 0.0);	(409745.7, 3776742.9, 129.7, 2350.0, 0.0);
(409765.7, 3776742.9, 129.7, 2350.0, 0.0);	(409785.7, 3776742.9, 129.6, 2350.0, 0.0);
(409805.7, 3776742.9, 129.4, 2350.0, 0.0);	(409825.7, 3776742.9, 129.1, 2350.0, 0.0);
(409645.7, 3776762.9, 130.8, 2350.0, 0.0);	(409665.7, 3776762.9, 130.4, 2350.0, 0.0);
(409685.7, 3776762.9, 130.1, 2350.0, 0.0);	(409705.7, 3776762.9, 129.7, 2350.0, 0.0);
(409725.7, 3776762.9, 129.5, 2350.0, 0.0);	(409745.7, 3776762.9, 129.4, 2350.0, 0.0);
(409765.7, 3776762.9, 129.3, 2350.0, 0.0);	(409785.7, 3776762.9, 129.2, 2350.0, 0.0);
(409805.7, 3776762.9, 128.9, 2350.0, 0.0);	(409825.7, 3776762.9, 128.7, 2350.0, 0.0);
(409645.7, 3776782.9, 130.7, 2350.0, 0.0);	(409665.7, 3776782.9, 130.3, 2350.0, 0.0);
(409685.7, 3776782.9, 129.9, 2350.0, 0.0);	(409705.7, 3776782.9, 129.5, 2350.0, 0.0);
(409725.7, 3776782.9, 129.3, 2350.0, 0.0);	(409745.7, 3776782.9, 129.1, 2350.0, 0.0);
(409765.7, 3776782.9, 128.9, 2350.0, 0.0);	(409785.7, 3776782.9, 128.8, 2350.0, 0.0);
(409805.7, 3776782.9, 128.5, 2350.0, 0.0);	(409825.7, 3776782.9, 128.2, 2350.0, 0.0);
(409645.7, 3776802.9, 130.7, 2350.0, 0.0);	(409665.7, 3776802.9, 130.2, 2350.0, 0.0);
(409685.7, 3776802.9, 129.8, 2350.0, 0.0);	(409705.7, 3776802.9, 129.3, 2350.0, 0.0);
(409725.7, 3776802.9, 129.0, 2350.0, 0.0);	(409745.7, 3776802.9, 128.8, 2350.0, 0.0);
(409765.7, 3776802.9, 128.6, 2350.0, 0.0);	(409785.7, 3776802.9, 128.3, 2350.0, 0.0);
(409805.7, 3776802.9, 128.1, 2350.0, 0.0);	(409825.7, 3776802.9, 127.8, 2350.0, 0.0);
(409645.7, 3776822.9, 130.5, 2350.0, 0.0);	(409665.7, 3776822.9, 130.0, 2350.0, 0.0);

Model Output - Elementary School Receptors
Unit Emission Rates (1 g/s)

(409685.7, 3776822.9,	129.5,	2350.0,	0.0);	(409705.7, 3776822.9,	129.0,	2350.0,	0.0);
(409725.7, 3776822.9,	128.7,	2350.0,	0.0);	(409745.7, 3776822.9,	128.5,	2350.0,	0.0);
(409765.7, 3776822.9,	128.2,	2350.0,	0.0);	(409785.7, 3776822.9,	128.0,	2350.0,	0.0);
(409805.7, 3776822.9,	127.7,	2350.0,	0.0);	(409825.7, 3776822.9,	127.5,	2350.0,	0.0);
(409645.7, 3776842.9,	129.7,	2350.0,	0.0);	(409665.7, 3776842.9,	129.4,	2350.0,	0.0);
(409685.7, 3776842.9,	129.0,	2350.0,	0.0);	(409705.7, 3776842.9,	128.6,	2350.0,	0.0);
(409725.7, 3776842.9,	128.3,	2350.0,	0.0);	(409745.7, 3776842.9,	128.1,	2350.0,	0.0);
(409765.7, 3776842.9,	127.9,	2350.0,	0.0);	(409785.7, 3776842.9,	127.8,	2350.0,	0.0);
(409805.7, 3776842.9,	127.6,	2350.0,	0.0);	(409825.7, 3776842.9,	127.4,	2350.0,	0.0);

Model Output - Elementary School Receptors Unit Emission Rates (1 g/s)

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
 LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	-- RECEPTOR LOCATION --		DISTANCE (METERS)
--	XR (METERS)	YR (METERS)	--
L0000069	409825.7	3776842.9	-6.03
L0000070	409825.7	3776822.9	-5.96
L0000071	409825.7	3776782.9	-1.34
L0000071	409825.7	3776802.9	-5.03
L0000072	409825.7	3776762.9	-3.51
L0000072	409825.7	3776782.9	-3.36
L0000073	409825.7	3776742.9	-5.07
L0000073	409825.7	3776762.9	-1.09
L0000074	409825.7	3776722.9	-5.87
L0000075	409825.7	3776702.9	-5.80
L0000076	409825.7	3776662.9	-1.21
L0000076	409825.7	3776682.9	-4.88
L0000077	409825.7	3776662.9	-3.21

Model Output - Elementary School Receptors Unit Emission Rates (1 g/s)

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*** MODELOPTs:   RegDFault  CONC  ELEV  URBAN

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  VALUES FOR SOURCE GROUP: PAREA3   ***
    INCLUDING SOURCE(S):   PAREA3

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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
409645.71	3776662.90	0.17945	409665.71	3776662.90	0.19692
409685.71	3776662.90	0.21751	409705.71	3776662.90	0.24209
409725.71	3776662.90	0.27199	409745.71	3776662.90	0.30906
409765.71	3776662.90	0.35630	409785.71	3776662.90	0.41878
409805.71	3776662.90	0.50621	409825.71	3776662.90	0.63875
409645.71	3776682.90	0.17568	409665.71	3776682.90	0.19241
409685.71	3776682.90	0.21202	409705.71	3776682.90	0.23508
409725.71	3776682.90	0.26240	409745.71	3776682.90	0.29534
409765.71	3776682.90	0.33590	409785.71	3776682.90	0.38714
409805.71	3776682.90	0.45519	409825.71	3776682.90	0.54749
409645.71	3776702.90	0.17167	409665.71	3776702.90	0.18738
409685.71	3776702.90	0.20560	409705.71	3776702.90	0.22688
409725.71	3776702.90	0.25152	409745.71	3776702.90	0.28067
409765.71	3776702.90	0.31563	409785.71	3776702.90	0.35809
409805.71	3776702.90	0.41126	409825.71	3776702.90	0.47757
409645.71	3776722.90	0.16748	409665.71	3776722.90	0.18221
409685.71	3776722.90	0.19910	409705.71	3776722.90	0.21859
409725.71	3776722.90	0.24089	409745.71	3776722.90	0.26677
409765.71	3776722.90	0.29710	409785.71	3776722.90	0.33280
409805.71	3776722.90	0.37580	409825.71	3776722.90	0.42702
409645.71	3776742.90	0.16358	409665.71	3776742.90	0.17748
409685.71	3776742.90	0.19328	409705.71	3776742.90	0.21133
409725.71	3776742.90	0.23175	409745.71	3776742.90	0.25511
409765.71	3776742.90	0.28203	409785.71	3776742.90	0.31308
409805.71	3776742.90	0.34961	409825.71	3776742.90	0.39222
409645.71	3776762.90	0.15969	409665.71	3776762.90	0.17282
409685.71	3776762.90	0.18763	409705.71	3776762.90	0.20443
409725.71	3776762.90	0.22324	409745.71	3776762.90	0.24454
409765.71	3776762.90	0.26879	409785.71	3776762.90	0.29646
409805.71	3776762.90	0.32854	409825.71	3776762.90	0.36532
409645.71	3776782.90	0.15577	409665.71	3776782.90	0.16818
409685.71	3776782.90	0.18210	409705.71	3776782.90	0.19779
409725.71	3776782.90	0.21524	409745.71	3776782.90	0.23487
409765.71	3776782.90	0.25704	409785.71	3776782.90	0.28221
409805.71	3776782.90	0.31046	409825.71	3776782.90	0.34258
409645.71	3776802.90	0.15185	409665.71	3776802.90	0.16359
409685.71	3776802.90	0.17672	409705.71	3776802.90	0.19145

Model Output - Elementary School Receptors
Unit Emission Rates (1 g/s)

409725.71	3776802.90	0.20776	409745.71	3776802.90	0.22601
409765.71	3776802.90	0.24624	409785.71	3776802.90	0.26896
409805.71	3776802.90	0.29465	409825.71	3776802.90	0.32388

Model Output - Elementary School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 16216r ***   *** Construction HRA   ***   04/04/17
*** AERMET - VERSION 14134 ***   *** City of Hope   ***   09:24:59
                                     *** PAGE 113

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*** MODELOPTs:   RegDEFAULT   CONC   ELEV   URBAN

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: PAREA3   ***
    INCLUDING SOURCE(S):   PAREA3   ,

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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
409645.71	3776822.90	0.14807	409665.71	3776822.90	0.15920
409685.71	3776822.90	0.17161	409705.71	3776822.90	0.18547
409725.71	3776822.90	0.20077	409745.71	3776822.90	0.21749
409765.71	3776822.90	0.23621	409785.71	3776822.90	0.25724
409805.71	3776822.90	0.28100	409825.71	3776822.90	0.30801
409645.71	3776842.90	0.14473	409665.71	3776842.90	0.15527
409685.71	3776842.90	0.16698	409705.71	3776842.90	0.17984
409725.71	3776842.90	0.19390	409745.71	3776842.90	0.20957
409765.71	3776842.90	0.22709	409785.71	3776842.90	0.24676
409805.71	3776842.90	0.26896	409825.71	3776842.90	0.29422

Model Output - Elementary School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 16216r ***   *** Construction HRA   ***   04/04/17
*** AERMET - VERSION 14134 ***   *** City of Hope   ***   09:24:59
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  VALUES FOR SOURCE GROUP: SLINE1  ***
      INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   , L0000028   , . . .
  
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER			IN MICROGRAMS/M**3			**		
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC			
409645.71	3776662.90	0.29473	409665.71	3776662.90	0.33870			
409685.71	3776662.90	0.39525	409705.71	3776662.90	0.46975			
409725.71	3776662.90	0.57220	409745.71	3776662.90	0.72137			
409765.71	3776662.90	0.95627	409785.71	3776662.90	1.37067			
409805.71	3776662.90	2.25875	409825.71	3776662.90	1.87727	MER LOCATION		
409645.71	3776682.90	0.29463	409665.71	3776682.90	0.33859			
409685.71	3776682.90	0.39519	409705.71	3776682.90	0.47002			
409725.71	3776682.90	0.57211	409745.71	3776682.90	0.72050			
409765.71	3776682.90	0.95420	409785.71	3776682.90	1.36730			
409805.71	3776682.90	2.25545	409825.71	3776682.90	3.04376			
409645.71	3776702.90	0.29404	409665.71	3776702.90	0.33777			
409685.71	3776702.90	0.39418	409705.71	3776702.90	0.46888			
409725.71	3776702.90	0.57044	409745.71	3776702.90	0.71787			
409765.71	3776702.90	0.95000	409785.71	3776702.90	1.35989			
409805.71	3776702.90	2.24847	409825.71	3776702.90	2.93545			
409645.71	3776722.90	0.29320	409665.71	3776722.90	0.33651			
409685.71	3776722.90	0.39229	409705.71	3776722.90	0.46642			
409725.71	3776722.90	0.56709	409745.71	3776722.90	0.71286			
409765.71	3776722.90	0.94195	409785.71	3776722.90	1.34572			
409805.71	3776722.90	2.22751	409825.71	3776722.90	2.90688			
409645.71	3776742.90	0.29379	409665.71	3776742.90	0.33739			
409685.71	3776742.90	0.39341	409705.71	3776742.90	0.46790			
409725.71	3776742.90	0.56925	409745.71	3776742.90	0.71635			
409765.71	3776742.90	0.94810	409785.71	3776742.90	1.35702			
409805.71	3776742.90	2.24290	409825.71	3776742.90	3.01768			
409645.71	3776762.90	0.29487	409665.71	3776762.90	0.33868			
409685.71	3776762.90	0.39501	409705.71	3776762.90	0.46999			
409725.71	3776762.90	0.57205	409745.71	3776762.90	0.72035			
409765.71	3776762.90	0.95388	409785.71	3776762.90	1.36642			
409805.71	3776762.90	2.25207	409825.71	3776762.90	1.86468			
409645.71	3776782.90	0.29573	409665.71	3776782.90	0.33977			
409685.71	3776782.90	0.39643	409705.71	3776782.90	0.47174			
409725.71	3776782.90	0.57443	409745.71	3776782.90	0.72360			
409765.71	3776782.90	0.95811	409785.71	3776782.90	1.37316			

Model Output - Elementary School Receptors
Unit Emission Rates (1 g/s)

409805.71	3776782.90	2.26075	409825.71	3776782.90	1.87578
409645.71	3776802.90	0.29653	409665.71	3776802.90	0.34076
409685.71	3776802.90	0.39772	409705.71	3776802.90	0.47337
409725.71	3776802.90	0.57661	409745.71	3776802.90	0.72649
409765.71	3776802.90	0.96224	409785.71	3776802.90	1.37974
409805.71	3776802.90	2.27383	409825.71	3776802.90	3.06995

Model Output - Elementary School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 16216r ***   *** Construction HRA   ***   04/04/17
*** AERMET - VERSION 14134 ***   *** City of Hope   ***   09:24:59
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*** MODELOPTs:   RegDFault  CONC  ELEV  URBAN

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: SLINE1   ***
      INCLUDING SOURCE(S):   L0000001   , L0000002   , L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   , L0000028   , . . .

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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
409645.71	3776822.90	0.29760	409665.71	3776822.90	0.34216
409685.71	3776822.90	0.39934	409705.71	3776822.90	0.47522
409725.71	3776822.90	0.57897	409745.71	3776822.90	0.72944
409765.71	3776822.90	0.96695	409785.71	3776822.90	1.38757
409805.71	3776822.90	2.29149	409825.71	3776822.90	2.97845
409645.71	3776842.90	0.30012	409665.71	3776842.90	0.34476
409685.71	3776842.90	0.40202	409705.71	3776842.90	0.47785
409725.71	3776842.90	0.58189	409745.71	3776842.90	0.73288
409765.71	3776842.90	0.97106	409785.71	3776842.90	1.39486
409805.71	3776842.90	2.29758	409825.71	3776842.90	2.98223

Model Output - Elementary School Receptors
Unit Emission Rates (1 g/s)

*** AERMOD - VERSION 16216r *** *** Construction HRA
*** AERMET - VERSION 14134 *** *** City of Hope

*** 04/04/17
*** 09:24:59
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*** MODELOPTs: RegDFault CONC ELEV URBAN

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1124 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 22 Calm Hours Identified

A Total of 1102 Missing Hours Identified (2.51 Percent)

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****
 *** NONE ***

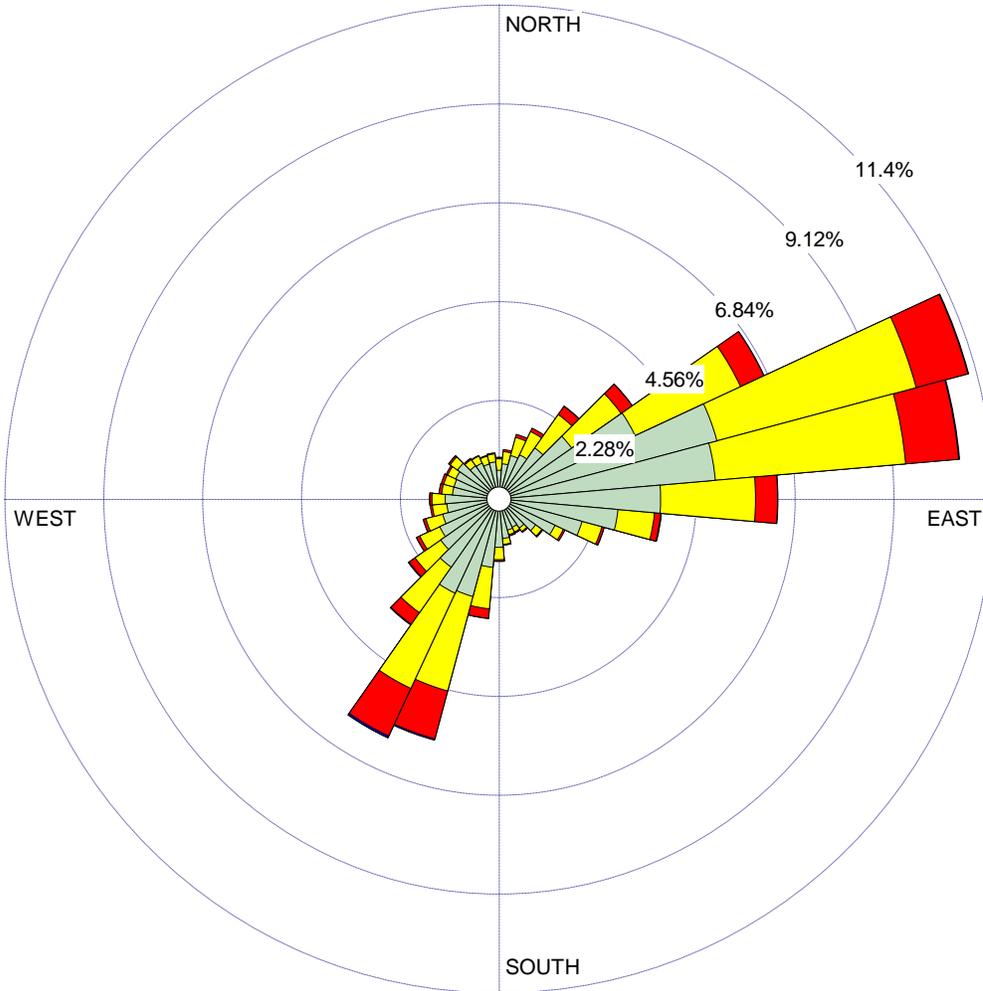
*** AERMOD Finishes Successfully ***

WIND ROSE PLOT:

Station #OS_ID:

DISPLAY:

Wind Speed
Flow Vector (blowing to)



WIND SPEED (m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 0.05%

COMMENTS:

DATA PERIOD:

Start Date: 1/1/2008 - 01:00
End Date: 12/31/2012 - 23:59

COMPANY NAME:

MODELER:

CALM WINDS:

0.05%

TOTAL COUNT:

43423 hrs.

AVG. WIND SPEED:

1.92 m/s

DATE:

4/11/2017

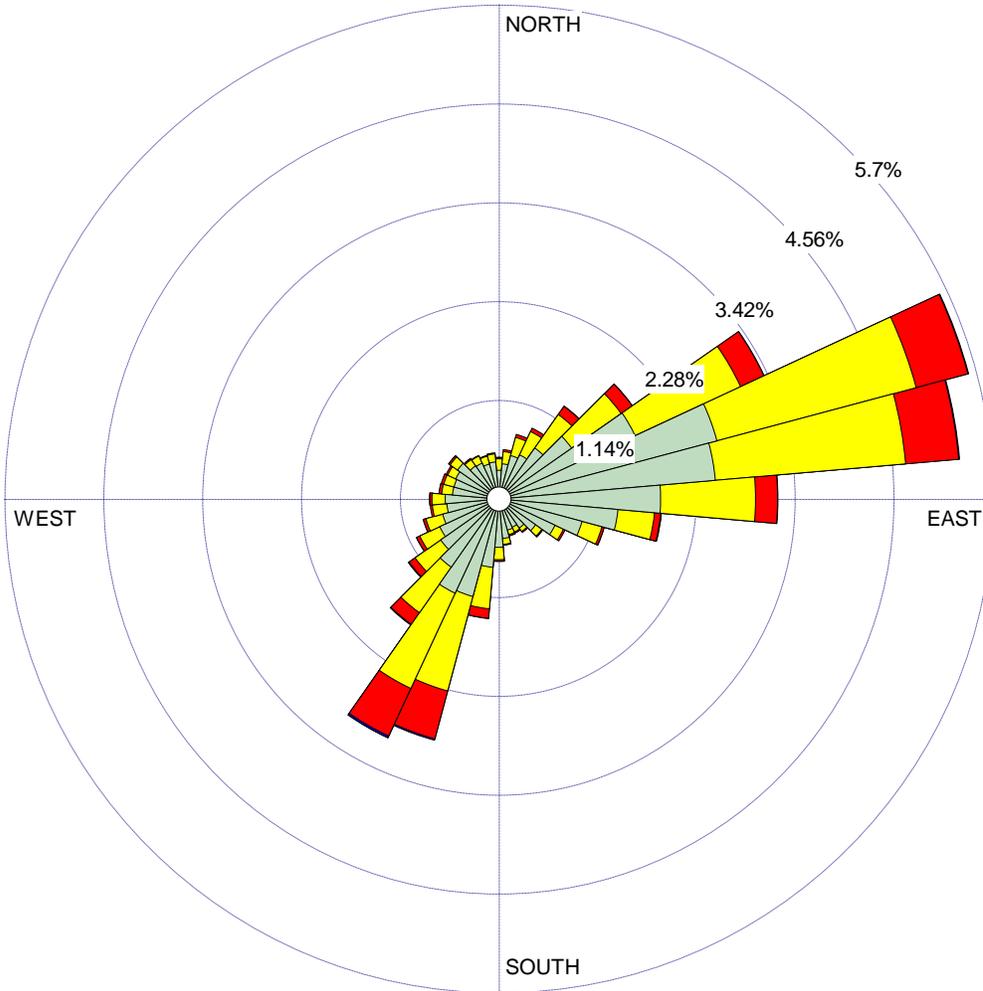
PROJECT NO.:

WIND ROSE PLOT:

Station #

DISPLAY:

**Wind Speed
Flow Vector (blowing to)**



WIND SPEED
(m/s)

- >= 11.10
 - 8.80 - 11.10
 - 5.70 - 8.80
 - 3.60 - 5.70
 - 2.10 - 3.60
 - 0.50 - 2.10
- Calms: 0.00%

COMMENTS:

DATA PERIOD:

**Start Date: 1/1/2008 - 01:00
End Date: 12/31/2012 - 23:59**

COMPANY NAME:

MODELER:

CALM WINDS:

0.00%

TOTAL COUNT:

43401 hrs.

AVG. WIND SPEED:

1.92 m/s

DATE:

4/11/2017

PROJECT NO.:

Appendix C. Construction Risk Calculations

Appendix

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Table C1a
Residential MER Concentrations for Risk Calculations

Contaminant (a)	Source (b)		Model Output ¹ ($\mu\text{g}/\text{m}^3$) (c)	Emission Rates ² (g/s) (d)	MER Conc. ($\mu\text{g}/\text{m}^3$) (e)	Total MER Conc. Annual Average ($\mu\text{g}/\text{m}^3$) (f)
Residential Receptors - Unmitigated						
DPM	2018	On-Site Emissions	2.59	3.13E-02	8.10E-02	8.11E-02
		Truck Route	0.65	1.57E-04	1.02E-04	
	2019	On-Site Emissions	2.59	2.12E-02	5.48E-02	5.50E-02
		Truck Route	0.65	2.81E-04	1.81E-04	
	2020	On-Site Emissions	2.59	1.93E-02	5.01E-02	5.02E-02
		Truck Route	0.65	2.18E-04	1.41E-04	
	2021	On-Site Emissions	2.59	2.76E-02	7.14E-02	7.15E-02
		Truck Route	0.65	5.89E-05	3.80E-05	
	2022	On-Site Emissions	2.59	1.32E-02	3.43E-02	3.43E-02
		Truck Route	0.65	7.32E-05	4.73E-05	
	2023	On-Site Emissions	2.59	1.21E-02	3.14E-02	3.15E-02
		Truck Route	0.65	5.97E-05	3.85E-05	
	2024	On-Site Emissions	2.59	1.06E-02	2.75E-02	2.75E-02
		Truck Route	0.65	5.88E-05	3.80E-05	
	2025	On-Site Emissions	2.59	2.90E-03	7.50E-03	7.50E-03
		Truck Route	0.65	1.08E-05	6.99E-06	
	2026	On-Site Emissions	2.59	1.30E-02	3.37E-02	3.37E-02
		Truck Route	0.65	1.00E-05	6.46E-06	
	2027	On-Site Emissions	2.59	8.63E-03	2.23E-02	2.24E-02
		Truck Route	0.65	2.03E-05	1.31E-05	
	2028	On-Site Emissions	2.59	9.12E-03	2.36E-02	2.36E-02
		Truck Route	0.65	2.06E-05	1.33E-05	
	2029	On-Site Emissions	2.59	9.13E-03	2.36E-02	2.36E-02
		Truck Route	0.65	1.95E-05	1.26E-05	
	2030	On-Site Emissions	2.59	1.68E-03	4.36E-03	4.36E-03
		Truck Route	0.65	3.40E-06	2.20E-06	
	2031	On-Site Emissions	2.59	4.99E-03	1.29E-02	1.29E-02
		Truck Route	0.65	5.93E-06	3.83E-06	
	2032	On-Site Emissions	2.59	2.46E-03	6.36E-03	6.37E-03
		Truck Route	0.65	1.14E-05	7.34E-06	
	2033	On-Site Emissions	2.59	2.66E-03	6.88E-03	6.89E-03
		Truck Route	0.65	1.15E-05	7.46E-06	
	2034	On-Site Emissions	2.59	2.66E-03	6.88E-03	6.89E-03
		Truck Route	0.65	1.10E-05	7.11E-06	
	2035	On-Site Emissions	2.59	9.10E-04	2.36E-03	2.36E-03
		Truck Route	0.65	1.87E-06	1.21E-06	

Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations

Table C1a
Residential MER Concentrations for Risk Calculations

Contaminant (a)	Source (b)		Model Output ¹ ($\mu\text{g}/\text{m}^3$) (c)	Emission Rates ² (g/s) (d)	MER Conc. ($\mu\text{g}/\text{m}^3$) (e)	Total MER Conc. Annual Average ($\mu\text{g}/\text{m}^3$) (f)
Residential Receptors - Mitigated Run: Level 3 DPFs for eq. > 50 HP						
DPM	2018	On-Site Emissions	2.59	5.34E-03	1.38E-02	1.39E-02
		Truck Route	0.65	1.57E-04	1.02E-04	
	2019	On-Site Emissions	2.59	4.51E-03	1.17E-02	1.19E-02
		Truck Route	0.65	2.81E-04	1.81E-04	
	2020	On-Site Emissions	2.59	4.06E-03	1.05E-02	1.07E-02
		Truck Route	0.65	2.18E-04	1.41E-04	
	2021	On-Site Emissions	2.59	4.58E-03	1.19E-02	1.19E-02
		Truck Route	0.65	5.53E-05	3.57E-05	
	2022	On-Site Emissions	2.59	2.84E-03	7.34E-03	7.39E-03
		Truck Route	0.65	7.32E-05	4.73E-05	
	2023	On-Site Emissions	2.59	2.55E-03	6.61E-03	6.65E-03
		Truck Route	0.65	5.97E-05	3.85E-05	
	2024	On-Site Emissions	2.59	2.22E-03	5.76E-03	5.80E-03
		Truck Route	0.65	5.88E-05	3.80E-05	
	2025	On-Site Emissions	2.59	4.70E-04	1.22E-03	1.22E-03
		Truck Route	0.65	1.08E-05	6.99E-06	
	2026	On-Site Emissions	2.59	2.17E-03	5.61E-03	5.61E-03
		Truck Route	0.65	1.00E-05	6.46E-06	
	2027	On-Site Emissions	2.59	1.85E-03	4.78E-03	4.79E-03
		Truck Route	0.65	2.03E-05	1.31E-05	
	2028	On-Site Emissions	2.59	1.91E-03	4.96E-03	4.97E-03
		Truck Route	0.65	2.06E-05	1.33E-05	
	2029	On-Site Emissions	2.59	1.92E-03	4.97E-03	4.98E-03
		Truck Route	0.65	1.95E-05	1.26E-05	
	2030	On-Site Emissions	2.59	2.67E-04	6.92E-04	6.94E-04
		Truck Route	0.65	3.40E-06	2.20E-06	
	2031	On-Site Emissions	2.59	8.35E-04	2.16E-03	2.17E-03
		Truck Route	0.65	5.93E-06	3.83E-06	
	2032	On-Site Emissions	2.59	5.88E-04	1.52E-03	1.53E-03
		Truck Route	0.65	1.14E-05	7.34E-06	
	2033	On-Site Emissions	2.59	6.18E-04	1.60E-03	1.61E-03
		Truck Route	0.65	1.15E-05	7.46E-06	
	2034	On-Site Emissions	2.59	6.18E-04	1.60E-03	1.61E-03
		Truck Route	0.65	1.10E-05	7.11E-06	
	2035	On-Site Emissions	2.59	1.44E-04	3.72E-04	3.73E-04
		Truck Route	0.65	1.87E-06	1.21E-06	

Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations

Maximum Exposed Receptor (MER) UTM coordinates: 409992.49E, 3776665.83N

¹ Model Output at the MER based on unit emission rates for sources (1 g/s).

² Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions).

Table C1b
Quantification of Health Risks for Off-site Residents

Source (a)	MER Conc. ($\mu\text{g}/\text{m}^3$) (b)	Weight Fraction (c)	Contaminant (d)	URF ($\mu\text{g}/\text{m}^3$) ⁻¹ (e)	CPF ($\text{mg}/\text{kg}/\text{day}$) ⁻¹ (f)	Dose (by age bin)				Carcinogenic Risks (by age bin)				Total Cancer Risk per million (o)	Chronic Hazards ³		
						3rd Trimester ($\text{mg}/\text{kg}/\text{day}$) (g)	0 < 2 years ($\text{mg}/\text{kg}/\text{day}$) (h)	2<16 ($\text{mg}/\text{kg}/\text{day}$) (i)	16<30 ($\text{mg}/\text{kg}/\text{day}$) (j)	3rd Trimester per million (k)	0 < 2 years per million (l)	2<16 per million (m)	16<30 per million (n)		Chronic REL ($\mu\text{g}/\text{m}^3$) (p)	RESP (q)	
Residential Receptors - Unmitigated																	
2018	On & Off-Site	8.11E-02	#####	DPM	3.0E-04	1.1E+00	2.81E-05	8.47E-05			8.94E-01	8.10E+00			9.00	5.0E+00	1.62E-02
2019	On & Off-Site	5.50E-02	#####		3.0E-04	1.1E+00		5.75E-05				7.33E+00			7.33	5.0E+00	1.10E-02
2020	On & Off-Site	5.02E-02	#####		3.0E-04	1.1E+00		5.25E-05	3.59E-05			1.67E+00	8.71E-01		2.54	5.0E+00	1.00E-02
2021	On & Off-Site	7.15E-02	#####		3.0E-04	1.1E+00			5.11E-05				1.65E+00		1.65	5.0E+00	1.43E-02
2022	On & Off-Site	3.43E-02	#####		3.0E-04	1.1E+00			2.45E-05				7.95E-01		0.79	5.0E+00	6.87E-03
2023	On & Off-Site	3.15E-02	#####		3.0E-04	1.1E+00			2.25E-05				7.28E-01		0.73	5.0E+00	6.29E-03
2024	On & Off-Site	2.75E-02	#####		3.0E-04	1.1E+00			1.97E-05				6.37E-01		0.64	5.0E+00	5.50E-03
2025	On & Off-Site	7.50E-03	#####		3.0E-04	1.1E+00			5.36E-06				1.72E-01		0.17	5.0E+00	1.50E-03
2026	On & Off-Site	3.37E-02	#####		3.0E-04	1.1E+00			2.41E-05				7.80E-01		0.78	5.0E+00	6.74E-03
2027	On & Off-Site	2.24E-02	#####		3.0E-04	1.1E+00			1.60E-05				5.17E-01		0.52	5.0E+00	4.47E-03
2028	On & Off-Site	2.36E-02	#####		3.0E-04	1.1E+00			1.69E-05				5.47E-01		0.55	5.0E+00	4.73E-03
2029	On & Off-Site	2.36E-02	#####		3.0E-04	1.1E+00			1.69E-05				5.47E-01		0.55	5.0E+00	4.73E-03
2030	On & Off-Site	4.36E-03	#####		3.0E-04	1.1E+00			3.12E-06				9.99E-02		0.10	5.0E+00	8.73E-04
2031	On & Off-Site	1.29E-02	#####		3.0E-04	1.1E+00			9.22E-06				2.99E-01		0.30	5.0E+00	2.58E-03
2032	On & Off-Site	6.37E-03	#####		3.0E-04	1.1E+00			4.55E-06				1.47E-01		0.15	5.0E+00	1.27E-03
2033	On & Off-Site	6.89E-03	#####		3.0E-04	1.1E+00			4.92E-06				1.59E-01		0.16	5.0E+00	1.38E-03
2034	On & Off-Site	6.89E-03	#####		3.0E-04	1.1E+00			4.92E-06	2.21E-06			3.99E-02	1.82E-02	0.06	5.0E+00	1.38E-03
2035	On & Off-Site	2.36E-03	#####		3.0E-04	1.1E+00			1.68E-06	7.57E-07			0.00E+00	8.23E-03	0.01	5.0E+00	4.71E-04
Total														26.0		0.100	
Residential Receptors - Mitigated Run: Level 3 DPFs for eq. > 50 HP																	
2018	On & Off-Site	1.39E-02	#####	DPM	3.0E-04	1.1E+00	4.82E-06	1.45E-05			1.54E-01	1.39E+00			1.54	5.0E+00	2.78E-03
2019	On & Off-Site	1.19E-02	#####		3.0E-04	1.1E+00		1.24E-05				1.58E+00			1.58	5.0E+00	2.37E-03
2020	On & Off-Site	1.07E-02	#####		3.0E-04	1.1E+00		1.11E-05	7.61E-06			3.55E-01	1.85E-01		0.54	5.0E+00	2.13E-03
2021	On & Off-Site	1.19E-02	#####		3.0E-04	1.1E+00			8.49E-06				2.75E-01		0.28	5.0E+00	2.38E-03
2022	On & Off-Site	7.39E-03	#####		3.0E-04	1.1E+00			5.28E-06				1.71E-01		0.17	5.0E+00	1.48E-03
2023	On & Off-Site	6.65E-03	#####		3.0E-04	1.1E+00			4.75E-06				1.54E-01		0.15	5.0E+00	1.33E-03
2024	On & Off-Site	5.80E-03	#####		3.0E-04	1.1E+00			4.14E-06				1.34E-01		0.13	5.0E+00	1.16E-03
2025	On & Off-Site	1.22E-03	#####		3.0E-04	1.1E+00			8.74E-07				2.80E-02		0.03	5.0E+00	2.45E-04
2026	On & Off-Site	5.61E-03	#####		3.0E-04	1.1E+00			4.01E-06				1.30E-01		0.13	5.0E+00	1.12E-03
2027	On & Off-Site	4.79E-03	#####		3.0E-04	1.1E+00			3.42E-06				1.11E-01		0.11	5.0E+00	9.58E-04
2028	On & Off-Site	4.97E-03	#####		3.0E-04	1.1E+00			3.55E-06				1.15E-01		0.12	5.0E+00	9.94E-04
2029	On & Off-Site	4.98E-03	#####		3.0E-04	1.1E+00			3.56E-06				1.15E-01		0.12	5.0E+00	9.97E-04
2030	On & Off-Site	6.94E-04	#####		3.0E-04	1.1E+00			4.96E-07				1.59E-02		0.02	5.0E+00	1.39E-04
2031	On & Off-Site	2.17E-03	#####		3.0E-04	1.1E+00			1.55E-06				5.01E-02		0.05	5.0E+00	4.33E-04
2032	On & Off-Site	1.53E-03	#####		3.0E-04	1.1E+00			1.09E-06				3.54E-02		0.04	5.0E+00	3.06E-04
2033	On & Off-Site	1.61E-03	#####		3.0E-04	1.1E+00			1.15E-06				3.72E-02		0.04	5.0E+00	3.21E-04
2034	On & Off-Site	1.61E-03	#####		3.0E-04	1.1E+00			1.15E-06	5.16E-07			9.30E-03	4.24E-03	0.01	5.0E+00	3.21E-04
2035	On & Off-Site	3.73E-04	#####		3.0E-04	1.1E+00			2.66E-07	1.20E-07			0.00E+00	1.30E-03	0.00	5.0E+00	7.46E-05
Total														5.1		0.020	

Maximum Exposed Receptor (MER) UTM coordinates: 409992.49E, 377665.83N

	OEHHA age bin exposure year(s)			
	3rd Trimester 2018	0 < 2 years 2018-2020	2<16 years 2020-2034	16<30 years 2034-2035
Dose Exposure Factors:				
xposure frequency (days/year)	350	350	350	350
inhalation rate (L/kg-day) ¹	361	1090	745	335
inhalation absorption factor	1	1	1	1
conversion factor (mg/ μg ; m ³ /L)	1.0E-06	1.0E-06	1.0E-06	1.0E-06
Risk Calculation Factors:				
age sensitivity factor	10	10	3	1
averaging time (years)	70	70	70	70
per million	1.0E+06	1.0E+06	1.0E+06	1.0E+06
fraction of time at home	0.85	0.85	0.72	0.73

exposure durations per age bin	Construction Year	Risk Scalar ²	exposure durations (year)			
			3rd Trimester	0 < 2 years	2<16 years	16<30 years
	2018	1.00	0.25	0.75		
	2019	1.00		1.00		
	2020	1.00		0.25	0.75	
	2021	1.00			1.00	
	2022	1.00			1.00	
	2023	1.00			1.00	
	2024	1.00			1.00	
	2025	0.99			0.99	
	2026	1.00			1.00	
	2027	1.00			1.00	
	2028	1.00			1.00	
	2029	1.00			1.00	
	2030	0.99			0.99	
	2031	1.00			1.00	
	2032	1.00			1.00	
	2033	1.00			1.00	
	2034	1.00			0.25	0.75
	2035	0.99				0.99
Total		17.97	0.25	2.00	13.98	1.74

¹ Inhalation rate taken as the 95th percentile breathing rates (OEHHA, 2015).

² Risk scalar determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App A - Construction Emissions).

³ Chronic Hazards for DPM using the chronic reference exposure level (REL) for the Respiratory Toxicological Endpoint.

Table C2a
Beardslee ES MER Concentrations for Risk Calculations

Contaminant (a)	Source (b)	Model Output ¹ ($\mu\text{g}/\text{m}^3$) (c)	Emission Rates ² (g/s) (d)	MER Conc. ($\mu\text{g}/\text{m}^3$) (e)	Total MER Conc. Annual Average ($\mu\text{g}/\text{m}^3$) (f)	
Beardslee ES Student Receptors - Unmitigated						
DPM	2018	On-Site Emissions	0.64	3.13E-02	2.00E-02	2.03E-02
		Truck Route	1.88	1.57E-04	2.96E-04	
	2019	On-Site Emissions	0.64	2.12E-02	1.35E-02	1.41E-02
		Truck Route	1.88	2.81E-04	5.27E-04	
	2020	On-Site Emissions	0.64	1.93E-02	1.23E-02	1.28E-02
		Truck Route	1.88	2.18E-04	4.09E-04	
	2021	On-Site Emissions	0.64	2.76E-02	1.76E-02	1.77E-02
		Truck Route	1.88	5.89E-05	1.10E-04	
	2022	On-Site Emissions	0.64	1.32E-02	8.46E-03	8.60E-03
		Truck Route	1.88	7.32E-05	1.37E-04	
	2023	On-Site Emissions	0.64	1.21E-02	7.75E-03	7.87E-03
		Truck Route	1.88	5.97E-05	1.12E-04	
	2024	On-Site Emissions	0.64	1.06E-02	6.78E-03	6.89E-03
		Truck Route	1.88	5.88E-05	1.10E-04	
	2025	On-Site Emissions	0.64	2.90E-03	1.85E-03	1.87E-03
		Truck Route	1.88	1.08E-05	2.03E-05	

Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations

Beardslee ES Student Receptors - Mitigated Run: Level 3 DPFs for eq. > 50 HP						
DPM	2018	On-Site Emissions	0.64	5.34E-03	3.41E-03	3.70E-03
		Truck Route	1.88	1.57E-04	2.96E-04	
	2019	On-Site Emissions	0.64	4.51E-03	2.88E-03	3.41E-03
		Truck Route	1.88	2.81E-04	5.27E-04	
	2020	On-Site Emissions	0.64	4.06E-03	2.59E-03	3.00E-03
		Truck Route	1.88	2.18E-04	4.09E-04	
	2021	On-Site Emissions	0.64	4.58E-03	2.92E-03	3.03E-03
		Truck Route	1.88	5.53E-05	1.04E-04	
	2022	On-Site Emissions	0.64	2.84E-03	1.81E-03	1.95E-03
		Truck Route	1.88	7.32E-05	1.37E-04	
	2023	On-Site Emissions	0.64	2.55E-03	1.63E-03	1.74E-03
		Truck Route	1.88	5.97E-05	1.12E-04	
	2024	On-Site Emissions	0.64	2.22E-03	1.42E-03	1.53E-03
		Truck Route	1.88	5.88E-05	1.10E-04	
	2025	On-Site Emissions	0.64	4.70E-04	3.00E-04	3.21E-04
		Truck Route	1.88	1.08E-05	2.03E-05	

Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations

Maximum Exposed Receptor (MER) UTM coordinates: 409825.71E, 3776662.90N

Note: Only the first 8 years of ground-level concentrations were determined as elementary school students (kindergarten through 6th grade) would only be exposed to a maximum duration of 7.5 years (assuming an addition half-year for 6th grade students completing the academic year by June in 2025). As the first 8 years of construction produced the highest emission rates from CalEEMod, the student health risks were calculated for the first 7.5 years of construction to be conservative.

¹ Model Output at the MER based on unit emission rates for sources (1 g/s).

² Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions).

Table C2b
Quantification of Health Risks for Off-site Beardslee ES Students

Source (a)	MER Conc. (µg/m ³) (b)	Weight Fraction (c)	Contaminant (d)	URF (µg/m ³) ⁻¹ (e)	CPF (mg/kg/day) ⁻¹ (f)	Dose (by age bin)		Carcinogenic Risks (by age bin)	Total Cancer Risk per million (i)	Chronic Hazards ¹		
						2<16 (mg/kg-day) (g)	2<16 per million (h)			Chronic REL (µg/m ³) (j)	RESP (k)	
						Beardslee ES Student Receptors - Unmitigated						
2018	On & Off-Site	2.03E-02	1.00E+00	DPM	3.0E-04	1.1E+00	7.22E-06	3.25E-01	0.32	5.0E+00	4.05E-03	
2019	On & Off-Site	1.41E-02	1.00E+00		3.0E-04	1.1E+00	5.01E-06	2.25E-01	0.23	5.0E+00	2.81E-03	
2020	On & Off-Site	1.28E-02	1.00E+00		3.0E-04	1.1E+00	4.54E-06	2.04E-01	0.20	5.0E+00	2.55E-03	
2021	On & Off-Site	1.77E-02	1.00E+00		3.0E-04	1.1E+00	6.32E-06	2.84E-01	0.28	5.0E+00	3.55E-03	
2022	On & Off-Site	8.60E-03	1.00E+00		3.0E-04	1.1E+00	3.06E-06	1.38E-01	0.14	5.0E+00	1.72E-03	
2023	On & Off-Site	7.87E-03	1.00E+00		3.0E-04	1.1E+00	2.80E-06	1.26E-01	0.13	5.0E+00	1.57E-03	
2024	On & Off-Site	6.89E-03	1.00E+00		3.0E-04	1.1E+00	2.45E-06	1.10E-01	0.11	5.0E+00	1.38E-03	
2025	On & Off-Site	1.87E-03	1.00E+00		3.0E-04	1.1E+00	6.66E-07	1.48E-02	0.01	5.0E+00	3.74E-04	
									Total	1.4	0.018	
Beardslee ES Student Receptors - Mitigated Run: Level 3 DPFs for eq. > 50 HP												
2018	On & Off-Site	3.70E-03	1.00E+00	DPM	3.0E-04	1.1E+00	1.32E-06	5.94E-02	0.06	5.0E+00	7.41E-04	
2019	On & Off-Site	3.41E-03	1.00E+00		3.0E-04	1.1E+00	1.21E-06	5.46E-02	0.05	5.0E+00	6.82E-04	
2020	On & Off-Site	3.00E-03	1.00E+00		3.0E-04	1.1E+00	1.07E-06	4.81E-02	0.05	5.0E+00	6.01E-04	
2021	On & Off-Site	3.03E-03	1.00E+00		3.0E-04	1.1E+00	1.08E-06	4.85E-02	0.05	5.0E+00	6.06E-04	
2022	On & Off-Site	1.95E-03	1.00E+00		3.0E-04	1.1E+00	6.94E-07	3.12E-02	0.03	5.0E+00	3.90E-04	
2023	On & Off-Site	1.74E-03	1.00E+00		3.0E-04	1.1E+00	6.21E-07	2.79E-02	0.03	5.0E+00	3.49E-04	
2024	On & Off-Site	1.53E-03	1.00E+00		3.0E-04	1.1E+00	5.45E-07	2.45E-02	0.02	5.0E+00	3.06E-04	
2025	On & Off-Site	3.21E-04	1.00E+00		3.0E-04	1.1E+00	1.14E-07	2.54E-03	0.00	5.0E+00	6.41E-05	
									Total	0.3	3.7E-03	

Maximum Exposed Receptor (MER) UTM coordinates: 409825.71E, 3776662.90N

OEHHA age bin exposure year(s) ²	2<16 years 2018-2025
Dose Exposure Factors:	
osure frequency (days/year) ³	250
inhalation rate (L/kg-8 hours) ⁴	520
inhalation absorption factor	1
conversion factor (mg/µg; m ³ /L)	1.0E-06
Risk Calculation Factors:	
age sensitivity factor	3
averaging time (years) per million	70 1.0E+06

exposure durations per age bin		exposure durations (year)
Construction Year	Risk Scalar ⁵	2<16 years
2018	1.00	1.00
2019	1.00	1.00
2020	1.00	1.00
2021	1.00	1.00
2022	1.00	1.00
2023	1.00	1.00
2024	1.00	1.00
2025	0.49	0.49
Total	7.49	7.49

¹ Chronic Hazards for DPM using the chronic reference exposure level (REL) for Respiratory Toxicological Endpoint.

² For purposes of this analysis, the duration of exposure is assumed at 7.5 years based on Beardslee Elementary School accommodating grades K-6 only. The exposure duration for grade sixth (year 2025) is assumed at 0.49 as students would complete the academic year by June.

³ Office of Environmental Health Hazard Assessment. *Guidance for School Site Risk Assessment Pursuant to Health and Safety Code Section 901(f): Guidance for Assessing Exposures and Health Risks at Existing and Proposed School Sites*. Dated February, 2004.

⁴ Inhalation rate taken as the 95th percentile 8-hour breathing rate for moderate intensity activities (OEHHA, 2015).

⁵ Risk scalars determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App A - Construction Emissions).