memorandum

TO: Summit Equities, LLC
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FROM: Olivia Chan, Associate Analyst

SUBJECT: Hallmark at Shenandoah Warehouse
Air Quality and Greenhouse Gas Emissions

DATE: January 15, 2015

Introduction

A numerical analysis of air quality and greenhouse gas emissions for the Hallmark at Shenandoah Warehouse Project in the City of San Bernardino, California has been prepared. This numerical analysis has been prepared utilizing the California Emissions Estimator Model (CalEEMod) version 2013.2.2 and guidance provided in the *CEQA and Climate Change* white paper prepared by the California Air Pollution Control Officers Association (CAPCOA) and by the South Coast Air Quality Management District (SCAQMD).

Project Description

The proposed project includes the construction of a 335,400 square-foot high-cube warehouse on 14.43 acres. The building will be located at the northeast corner of Hallmark Parkway and Shenandoah Way in the City of San Bernardino, California. The project also includes demolition of an existing asphalt parking lot on the southern portion of the project site. The project site is generally located west of Interstate 215 and east of Cajon Boulevard, between Lexington Way and Saratoga Way. The project will provide 190 parking spaces, 91 trailer parking space, and 51 dock doors. In addition, 44,143 square feet of landscaping is proposed.

Methodology

The proposed project will result in construction-related and operational emissions of criteria pollutants and toxic air contaminants. A project may have a significant impact if project-related emissions would exceed federal, state, or regional standards or thresholds, or if project-related emissions would substantially contribute to existing or project air quality violations. Long-term criteria air pollutant emissions will result from the operation of the project. Long-term emissions are categorized as area source emissions, energy demand emissions, and operational emissions. Operational emissions will result from automobile and other vehicle sources associated with daily trips to and from the proposed warehouse. Area source emissions are the combination of many small emission sources that include use of outdoor landscape maintenance equipment, use of consumer products such as cleaning products, and periodic repainting of the proposed structure. Energy demand emissions result from use of electricity and natural gas.

The proposed warehouse use will result in continuous greenhouse gas emissions from mobile, area, and operational sources. Mobile sources include vehicle trips to and from the project site and will result primarily in emissions of CO_2 with minor emissions of CH_4 and N_2O. The most significant GHG emission from natural gas usage will be carbon dioxide. Electricity usage in the building and indirect usage of electricity for water and wastewater conveyance will result primarily in emissions of carbon dioxide. Disposal of solid waste will result in emissions of methane from the decomposition of waste at landfills coupled with CO_2 emissions from the handling and transport of solid waste. These sources combine to define the long-term greenhouse gas emissions inventory at build-out of the proposed project. To model this inventory, CalEEMod was used. The methodology utilized for each emissions source is based on the California Air Pollution Control Officers Association (CAPCOA) *Quantifying Greenhouse Gas Mitigation Measures* handbook.[1]

The modeling of air quality and greenhouse gas emissions from the project includes the use of project-specific details when available. When project-specific details were not available, CalEEMod defaults were utilized. Assumptions utilized in the air quality model are summarized herein.

Vehicle Trips and Emissions
The proposed project includes demolition of an existing asphalt parking lot on the southern portion of the project site. The project site is expected to balance and no import and export of soil is anticipated.

Trip generation (3.56 daily trips per 1,000 SF) is based on the trip generation rates utilized in the project traffic study.[2] Based on SCAQMD recommendations, an average rate of 0.64 trucks per 1,000 square feet has been applied for purposes of this analysis.[3] Passenger vehicles will consist of 61.80 percent of the fleet mix, light-duty trucks will consist of 6.46 percent of the fleet mix, medium-heavy duty trucks will consist of 8.70 percent of the truck trips, and heavy-heavy duty truck trips consist of 23.04 percent of the fleet mix. Trip lengths have been adjusted based on a study of metropolitan commercial and freight travel conducted by the National Cooperative Highway Research Program. According to observed data collected in the field for the Southern California Association of Governments (SCAG) region, trip lengths for similar uses are estimated at 5.92 miles for light-duty trucks, 13.06 for medium-duty trucks, and 22.40 for heavy-duty trucks. Total vehicle miles were calculated using the average daily trips for each vehicle class and divided by total daily truck trips to get to an average truck distance of 17.41 miles.

Energy Use
Default electricity and natural gas demand rates were utilized.

Water and Wastewater Use
Default indoor water demand rates were utilized. Wastewater typically comprises 80 percent of total water demand.

CalEEMod does not include outdoor landscape irrigation demand defaults for this type of project. Estimated irrigation needs for landscaping was calculated at 615,180 gallons per year. Landscape irrigation requirements were calculated using the California Department of Water Resources (DWR) *Water Budget* Workbook that calculates the Maximum Applied Water Allowance (MAWA) for landscaping based on the requirements of the state water conservation in landscaping act.[4] This reflects the maximum allowable amount of water that is permitted to be used annually after consideration of effective precipitation (25 percent of annual rainfall).

Solid Waste Generation
Default solid waste generation rates were utilized.

Thresholds of Significance

Air Quality
Appendix G of the State CEQA Guidelines indicates that a project could result in potentially significant impacts related to air quality if it would:

A. Conflict with or obstruct implementation of the applicable air quality plan.
B. Violate any air quality standard or contribute substantially to an existing or projected air quality violation.
C. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors).
D. Expose sensitive receptors to substantial pollutant concentrations.
E. Create objectionable odors affecting a substantial number of people.

Greenhouse Gas Emissions
Appendix G of the State CEQA Guidelines indicates that a project could result in potentially significant impacts related to greenhouse gas emissions and global climate change if it would:

A. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
B. Conflict with an applicable plan, policy, or regulation adopted for the purposes of reducing the emissions of greenhouse gases.

A numerical threshold for determining the significance of greenhouse gas emissions in the South Coast Air Basin (Basin) has not been established by the South Coast Air Quality Management District (SCAQMD). As an interim threshold based on guidance provided in the CAPCOA *CEQA and Climate Change* handbook, a non-zero threshold approach based on Approach 2 of the handbook has been used. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90 percent of emissions from future development. The latest threshold developed by SCAQMD using this method is 10,000 metric tons carbon dioxide equivalent (MTCO2E) per year for industrial projects.[5] This threshold is based on the review of 711 CEQA projects. This threshold will be utilized herein to determine if emissions of greenhouse gases from this project will be significant.

Emissions Inventory

Air Quality

Based on the results of the model, maximum daily emissions from the construction of the proposed project will result in excessive volatile organic compounds (VOC) emissions (identified as reactive organic gases (ROG) in the model) associated with interior and exterior coating activities. Using the default assumption of 250 g/l VOC content for non-residential interior and exterior surfaces, daily VOC emissions would reach 448.94 lbs/day.

To compensate for excessive VOC emissions from coating activities for the proposed project, the model includes use of a maximum zero g/l VOC content for all interior and exterior surfaces. Use of low-VOC coatings during construction activities will reduce VOC emissions to 71.35 lbs/day during summer and winter months, less than the SCAQMD threshold. The requirement for use of low-VOC coatings has been included as Mitigation Measure AQ-1. The results of the CalEEMod output with mitigation incorporated is summarized in Table 1 (Maximum Daily Construction Emissions (lbs/day)).

Table 1
Maximum Daily Construction Emissions (lbs/day)

Year	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
2017						
Summer	6.17	69.69	47.98	0.09	10.00	6.46
Winter	6.18	69.70	47.88	0.08	10.00	6.46
2018						
Summer	4.30	31.87	40.82	0.09	5.23	2.50
Winter	4.38	32.16	41.65	0.08	5.24	2.51
SCAQMD Threshold	**75**	**100**	**550**	**150**	**150**	**55**
Potential Impact?	**No**	**No**	**No**	**No**	**No**	**No**
Note: Volatile organic compounds are measured as reactive organic compounds						

Operational emissions are summarized in Table 2 (Long-Term Daily Emissions (lbs/day)). Long-term emissions will exceed the NOX daily threshold established by SCAQMD from mobile sources. In order to mitigate for excessive NOX emissions, Mitigation Measure AQ-2 will be incorporated. Mitigation Measure AQ-2 requires operations at the proposed facility to be implemented such that the SCAQMD daily threshold (established as the performance standard for the measure) will not be exceeded trough application of common mitigation techniques for high-cube warehouses that could include use of higher-efficiency engines in the operator's fleet, installation of filters that reduce NOX emissions from the operator's fleet, or a reduction in the number of trucks permitted to enter the site on a daily basis. A 25 percent reduction is required to be demonstrated in order to meet the performance standard. Impacts will be less than significant with mitigation incorporated.

Table 2
Long-Term Daily Emissions (lbs/day)

Source	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Summer						
Area Sources	14.91	0.00	0.04	0.00	0.00	0.00
Energy Demand	0.02	0.19	0.16	0.00	0.01	0.01
Mobile Sources	6.34	66.09	82.95	0.00	17.41	5.49
Summer Total	**21.27**	**66.29**	**83.16**	**0.33**	**17.43**	**5.51**
Winter						
Area Sources	14.91	0.00	0.04	0.00	0.00	0.00
Energy Demand	0.02	0.19	0.16	0.00	0.01	0.01
Mobile Sources	6.58	68.53	89.25	0.33	17.42	5.49
Winter Total	**21.51**	**68.72**	**89.45**	**0.33**	**17.43**	**5.51**

Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Potential Impact?	**No**	**Yes**	**No**	**No**	**No**	**No**

Localized Significance

As part of the SCAQMD's environmental justice program, attention has recently been focusing more on the localized effects of air quality. Although the region may be in attainment for a particular criteria pollutant, localized emissions from construction activities couple with ambient pollutant levels can cause localized increases in criteria pollutants that exceed national and/or State air quality standards.

Construction-related criteria pollutant emissions and potentially significant localized impacts were evaluated pursuant to the SCAQMD Final Localized Significance Thresholds Methodology. This methodology provides screening tables for one- through five-acre project scenarios, depending on the amount of site disturbance during a day using the Fact Sheet for equipment usage in CalEEMod.[6] Daily oxides of nitrogen (NO_X), carbon monoxide (CO), and particulate matter (PM_{10} and $PM_{2.5}$) emissions will occur during construction of the project, grading of the project site, and paving of facility parking lot and drive aisles. Table 3 (Localized Significance Threshold Analysis) summarize on- and off-site emissions as compared to the local thresholds established for Source Receptor Area (SRA) 34 (Central San Bernardino Valley). Based on the use of four tractors and three dozers during site preparation activities, a 3.5-acre threshold will be used (using linear regression). A 200-meter receptor distance was used to reflect the proximity of residential uses to east of the project site. Note that particulate matter emissions account for daily watering required by SCAQMD Rule 403 (three times per day for a 61 percent reduction in fugitive dust). Emissions from construction activities will not exceed any localized threshold.

Table 3
Five Acre Localized Significant Threshold Analysis

Construction Activity	CO	NO_X	PM_{10}	$PM_{2.5}$
Paving Demolition	33.89	42.70	5.51	2.49
Site Preparation	39.40	51.75	9.80	6.41
Grading	46.81	69.59	6.70	4.45
Building Construction	18.13	26.41	1.78	1.67
Paving	14.49	17.16	0.94	0.86
Architectural Coating	1.85	2.01	0.15	0.15
Maximum	**46.81**	**69.59**	**9.80**	**6.41**
Threshold	**7,393.72**	**430.61**	**94.27**	**30.5**
Potentially Significant?	**No**	**No**	**No**	**No**

Greenhouse Gas Emissions

The long-term GHG emissions for the proposed project are summarized in Table 4 (Greenhouse Gas Emissions Inventory). Table 4 represents the project's business as usual (BAU) emissions and does not include any form of mitigation or GHG reducing project features. Operational GHG emissions from the project are projected at 5,748.22 metric tons carbon dioxide equivalent (MTCO2E) per year.

Table 4
Greenhouse Gas Emissions Inventory

Source	GHG Emissions (MT/YR)			
	CO2	CH4	N2O	TOTAL*
Construction				
Total	1,244.54	0.16	0.00	1,247.88
30-Year Amortization	*41.48*	*0.01*	*0.00*	*41.60*
Operational				
Area	0.01	0.00	0.00	0.01
Energy	390.91	0.02	0.00	392.52
Mobile	4,780.72	0.08	0.00	4,782.38
Waste	64.00	3.78	0.00	143.43
Water	315.57	2.54	0.06	388.28
Total Operational	*5,551.21*	*6.42*	*0.07*	*5,706.62*
TOTAL	5,748.22			
Proposed SCAQMD Screening Threshold	**10,000**			
Exceeds Screening Threshold?	***No***			

** MTCO2E/YR*
Note: Slight variations may occur due to rounding. Construction emissions amortized over 30 years.

Sensitive Receptors
Sensitive receptors are those segments of the population that are most susceptible to poor air quality such as children, the elderly, the sick, and athletes who perform outdoors. Land uses associated with sensitive receptors include residences, schools, playgrounds, childcare centers, outdoor athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. The nearest land uses that are considered *sensitive receptors* are the residential dwelling units located approximately 0.12 miles to the east of the project site.

Odors
According to the CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). The proposed project is sited within an existing industrial and commercial area. The proposed project does not produce odors that would affect a substantial number of people considering that the proposed project will not result in heavy manufacturing activities.

Conclusion

The proposed project is consistent with the South Coast Air Basin's Air Quality Management Plan and will therefore not conflict with or obstruct implementation of any air quality plan. The proposed project consists of a 335,400-square foot warehouse and will not generate toxic pollutant emissions or objectionable odors. These impacts will therefore be less than significant.

Temporary emissions associated with excessive VOC emission from coating activities would exceed SCAQMD thresholds. Mitigation Measure AQ-1 requires that the proposed project use a maximum of zero g/l VOC content for all interior and exterior surfaces. Use of low-VOC coatings would reduce VOC emissions to levels that will not exceed SCAQMD thresholds. Impacts will be less than significant with implementation of Mitigation Measure AQ-1.

Operational emissions of criteria air pollutants will not exceed the daily thresholds established by SCAQMD. Impacts will therefore be less than significant.

Greenhouse gas emissions from the proposed project will not exceed the maximum 10,000 metric tons carbon dioxide equivalent (MTCO2E) per year threshold established by SCAQMD. Impacts will be less than significant.

Mitigation Measures

AQ-1 Prior to issuance of building permits, the City Building Official shall verify that construction plans submitted by the project proponent reflect use of architectural coatings where the content of volatile organic compounds (VOC) does not exceed zero g/l for internal and exterior non-residential applications. This measure shall be verified through standard building inspections. The applicant shall bear the cost of implementing this mitigation.

AQ-2 Prior to issuance of business licenses, the building tenant shall provide evidence to the City Planning Division that emissions from truck fleet trips and other operations will not exceed the South Coast Air Quality Management District's (SCAQMD) daily oxides of nitrogen threshold through documentation required by the State Truck and Bus Regulation (California Code of Regulations, Title 13, Section 2025). Oxides of nitrogen emissions from operations can be reduced in a variety of ways including, but not limited to, engine retrofitting, engine replacement, use of hybrid or zero emissions vehicles, and operational restrictions such as further limitations on idling beyond state requirements.

References

[1] California Air Pollution Control Officers Association. Quantifying Greenhouse Gas Emissions. August 2010
[2] Kunzman Associates, Inc. 4982 Hallmark Parkway Project Traffic Impact Analysis. December 1, 2015
[3] South Coast Air Quality Management District. *Warehouse Truck Trip Study Data Results and Usage.* July 25, 2014
[4] California Department of Water Resources. Water Budget Workbook. www.water.ca.gov/wateruseefficiency/docs/WaterBudget.xls [January 2016]

[5] South Coast Air Quality Management District. CEQA Significance Thresholds Working Group. Meeting # 15, Main Presentation. September 28, 2010

[6] South Coast Air Quality Management District. Fact Sheet for Applying CalEEMod to Localized Significance Thresholds.

attachment a – CalEEMod Output Data

Hallmark

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	335.40	1000sqft	7.70	335,400.00	0
Other Non-Asphalt Surfaces	44.14	1000sqft	1.01	44,143.00	0
Parking Lot	5.72	Acre	5.72	249,163.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

Demolition - Demolition - Parking lot

Vehicle Trips - Trip rate per the Traffic Study

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Water And Wastewater - CA Dept of Water Resources Water Budget Workbook

Construction Off-road Equipment Mitigation - Water Exposed Area 3 times daily

Architectural Coating - Interior and exterior coatings - 0 g/L

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD1	0.04	0.06

tblVehicleEF	LHD2	6.6660e-003	0.00
tblVehicleEF	LHD2	6.6660e-003	0.00
tblVehicleEF	LHD2	6.6660e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleTrips	CNW_TL	6.90	17.41
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	2.59	3.56
tblWater	OutdoorWaterUseRate	0.00	615,180.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	6.1740	69.6860	47.9791	0.0866	18.2675	3.3190	21.0233	9.9840	3.0535	12.5194	0.0000	7,871.1889	7,871.1889	1.9457	0.0000	7,912.0478
2018	4.2992	31.8664	40.8196	0.0865	3.5948	1.6396	5.2344	0.9660	1.5385	2.5045	0.0000	7,691.8602	7,691.8602	0.7921	0.0000	7,708.4944
Total	**10.4732**	**101.5524**	**88.7987**	**0.1731**	**21.8623**	**4.9585**	**26.2577**	**10.9500**	**4.5920**	**15.0239**	**0.0000**	**15,563.0491**	**15,563.0491**	**2.7378**	**0.0000**	**15,620.5422**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	6.1740	69.6860	47.9791	0.0866	7.2470	3.3190	10.0029	3.9263	3.0535	6.4617	0.0000	7,871.1889	7,871.1889	1.9457	0.0000	7,912.0478
2018	4.2992	31.8664	40.8196	0.0865	3.5948	1.6396	5.2344	0.9660	1.5385	2.5045	0.0000	7,691.8602	7,691.8602	0.7921	0.0000	7,708.4944
Total	**10.4732**	**101.5524**	**88.7987**	**0.1731**	**10.8419**	**4.9585**	**15.2372**	**4.8923**	**4.5920**	**8.9662**	**0.0000**	**15,563.0491**	**15,563.0491**	**2.7378**	**0.0000**	**15,620.5422**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.41**	**0.00**	**41.97**	**55.32**	**0.00**	**40.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	14.9095	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Energy	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
Mobile	6.3387	66.0931	82.9538	0.3327	16.2125	1.2013	17.4138	4.3853	1.1055	5.4909		29,388.3609	29,388.3609	0.4775		29,398.3885
Total	**21.2694**	**66.2862**	**83.1555**	**0.3339**	**16.2125**	**1.2160**	**17.4286**	**4.3853**	**1.1203**	**5.5056**		**29,619.7928**	**29,619.7928**	**0.4822**	**4.2400e-003**	**29,631.2332**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	14.9095	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Energy	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
Mobile	6.3387	66.0931	82.9538	0.3327	16.2125	1.2013	17.4138	4.3853	1.1055	5.4909		29,388.3609	29,388.3609	0.4775		29,398.3885
Total	**21.2694**	**66.2862**	**83.1555**	**0.3339**	**16.2125**	**1.2160**	**17.4286**	**4.3853**	**1.1203**	**5.5056**		**29,619.7928**	**29,619.7928**	**0.4822**	**4.2400e-003**	**29,631.2332**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/10/2017	5	10	
3	Grading	Grading	2/11/2017	3/24/2017	5	30	
4	Building Construction	Building Construction	3/25/2017	5/18/2018	5	300	
5	Paving	Paving	5/19/2018	6/15/2018	5	20	
6	Architectural Coating	Architectural Coating	6/16/2018	7/13/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 580,527; Non-Residential Outdoor: 193,509 (Architectural Coating –

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	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38

Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	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	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Scrapers	2	8.00	361	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	0.00	801.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	264.00	103.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	53.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6709	0.0000	8.6709	1.3129	0.0000	1.3129			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**8.6709**	**2.1252**	**10.7961**	**1.3129**	**1.9797**	**3.2926**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6527	10.1721	7.4751	0.0295	0.6978	0.1569	0.8547	0.1911	0.1444	0.3355		2,931.0871	2,931.0871	0.0209		2,931.5266
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0705	0.8806	2.1200e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		171.6086	171.6086	8.4400e-003		171.7859
Total	**0.7088**	**10.2427**	**8.3556**	**0.0317**	**0.8655**	**0.1583**	**1.0238**	**0.2356**	**0.1456**	**0.3812**		**3,102.6957**	**3,102.6957**	**0.0294**		**3,103.3125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3816	0.0000	3.3816	0.5120	0.0000	0.5120			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**3.3816**	**2.1252**	**5.5068**	**0.5120**	**1.9797**	**2.4917**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6527	10.1721	7.4751	0.0295	0.6978	0.1569	0.8547	0.1911	0.1444	0.3355		2,931.0871	2,931.0871	0.0209		2,931.5266
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0705	0.8806	2.1200e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		171.6086	171.6086	8.4400e-003		171.7859
Total	**0.7088**	**10.2427**	**8.3556**	**0.0317**	**0.8655**	**0.1583**	**1.0238**	**0.2356**	**0.1456**	**0.3812**		**3,102.6957**	**3,102.6957**	**0.0294**		**3,103.3125**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**18.0663**	**2.7542**	**20.8205**	**9.9307**	**2.5339**	**12.4646**		**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0674	0.0846	1.0567	2.5500e-003	0.2012	1.6200e-003	0.2028	0.0534	1.4900e-003	0.0549		205.9304	205.9304	0.0101		206.1431
Total	**0.0674**	**0.0846**	**1.0567**	**2.5500e-003**	**0.2012**	**1.6200e-003**	**0.2028**	**0.0534**	**1.4900e-003**	**0.0549**		**205.9304**	**205.9304**	**0.0101**		**206.1431**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**7.0458**	**2.7542**	**9.8001**	**3.8730**	**2.5339**	**6.4069**	**0.0000**	**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0674	0.0846	1.0567	2.5500e-003	0.2012	1.6200e-003	0.2028	0.0534	1.4900e-003	0.0549		205.9304	205.9304	0.0101		206.1431
Total	**0.0674**	**0.0846**	**1.0567**	**2.5500e-003**	**0.2012**	**1.6200e-003**	**0.2028**	**0.0534**	**1.4900e-003**	**0.0549**		**205.9304**	**205.9304**	**0.0101**		**206.1431**

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**6.0991**	**69.5920**	**46.8050**	**0.0617**	**8.6733**	**3.3172**	**11.9905**	**3.5965**	**3.0518**	**6.6483**		**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113		229.0479
Total	**0.0749**	**0.0940**	**1.1741**	**2.8300e-003**	**0.2236**	**1.8000e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**228.8115**	**228.8115**	**0.0113**		**229.0479**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**6.0991**	**69.5920**	**46.8050**	**0.0617**	**3.3826**	**3.3172**	**6.6998**	**1.4026**	**3.0518**	**4.4545**	**0.0000**	**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0940	1.1741	2.8300e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		228.8115	228.8115	0.0113		229.0479
Total	**0.0749**	**0.0940**	**1.1741**	**2.8300e-003**	**0.2236**	**1.8000e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**228.8115**	**228.8115**	**0.0113**		**229.0479**

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7887	8.1449	9.6624	0.0224	0.6439	0.1296	0.7735	0.1834	0.1192	0.3026		2,211.0717	2,211.0717	0.0156		2,211.3992
Worker	0.9880	1.2413	15.4977	0.0374	2.9509	0.0237	2.9746	0.7826	0.0219	0.8045		3,020.3119	3,020.3119	0.1486		3,023.4321
Total	**1.7767**	**9.3861**	**25.1601**	**0.0598**	**3.5948**	**0.1533**	**3.7482**	**0.9660**	**0.1411**	**1.1071**		**5,231.3836**	**5,231.3836**	**0.1642**		**5,234.8313**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**	**0.0000**	**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7887	8.1449	9.6624	0.0224	0.6439	0.1296	0.7735	0.1834	0.1192	0.3026		2,211.0717	2,211.0717	0.0156		2,211.3992
Worker	0.9880	1.2413	15.4977	0.0374	2.9509	0.0237	2.9746	0.7826	0.0219	0.8045		3,020.3119	3,020.3119	0.1486		3,023.4321
Total	**1.7767**	**9.3861**	**25.1601**	**0.0598**	**3.5948**	**0.1533**	**3.7482**	**0.9660**	**0.1411**	**1.1071**		**5,231.3836**	**5,231.3836**	**0.1642**		**5,234.8313**

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	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7398	7.4795	9.2058	0.0224	0.6439	0.1222	0.7661	0.1834	0.1124	0.2958		2,173.9940	2,173.9940	0.0155		2,174.3195
Worker	0.8908	1.1261	14.0812	0.0374	2.9509	0.0231	2.9740	0.7826	0.0214	0.8040		2,907.9272	2,907.9272	0.1379		2,910.8232
Total	**1.6306**	**8.6055**	**23.2870**	**0.0597**	**3.5948**	**0.1453**	**3.7401**	**0.9660**	**0.1338**	**1.0997**		**5,081.9212**	**5,081.9212**	**0.1534**		**5,085.1427**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7398	7.4795	9.2058	0.0224	0.6439	0.1222	0.7661	0.1834	0.1124	0.2958		2,173.9940	2,173.9940	0.0155		2,174.3195
Worker	0.8908	1.1261	14.0812	0.0374	2.9509	0.0231	2.9740	0.7826	0.0214	0.8040		2,907.9272	2,907.9272	0.1379		2,910.8232
Total	**1.6306**	**8.6055**	**23.2870**	**0.0597**	**3.5948**	**0.1453**	**3.7401**	**0.9660**	**0.1338**	**1.0997**		**5,081.9212**	**5,081.9212**	**0.1534**		**5,085.1427**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3607**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**		**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0506	0.0640	0.8001	2.1200e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		165.2231	165.2231	7.8400e-003		165.3877
Total	**0.0506**	**0.0640**	**0.8001**	**2.1200e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**165.2231**	**165.2231**	**7.8400e-003**		**165.3877**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3607**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**	**0.0000**	**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0506	0.0640	0.8001	2.1200e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		165.2231	165.2231	7.8400e-003		165.3877
Total	**0.0506**	**0.0640**	**0.8001**	**2.1200e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**165.2231**	**165.2231**	**7.8400e-003**		**165.3877**

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**0.2986**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1788	0.2261	2.8269	7.5000e-003	0.5924	4.6400e-003	0.5971	0.1571	4.2900e-003	0.1614		583.7884	583.7884	0.0277		584.3698
Total	**0.1788**	**0.2261**	**2.8269**	**7.5000e-003**	**0.5924**	**4.6400e-003**	**0.5971**	**0.1571**	**4.2900e-003**	**0.1614**		**583.7884**	**583.7884**	**0.0277**		**584.3698**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**0.2986**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1788	0.2261	2.8269	7.5000e-003	0.5924	4.6400e-003	0.5971	0.1571	4.2900e-003	0.1614		583.7884	583.7884	0.0277		584.3698
Total	**0.1788**	**0.2261**	**2.8269**	**7.5000e-003**	**0.5924**	**4.6400e-003**	**0.5971**	**0.1571**	**4.2900e-003**	**0.1614**		**583.7884**	**583.7884**	**0.0277**		**584.3698**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.3387	66.0931	82.9538	0.3327	16.2125	1.2013	17.4138	4.3853	1.1055	5.4909		29,388.3609	29,388.3609	0.4775		29,398.3885
Unmitigated	6.3387	66.0931	82.9538	0.3327	16.2125	1.2013	17.4138	4.3853	1.1055	5.4909		29,388.3609	29,388.3609	0.4775		29,398.3885

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,194.02	1,194.02	1194.02	7,359,109	7,359,109
Total	1,194.02	1,194.02	1,194.02	7,359,109	7,359,109

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	17.41	59.00	0.00	41.00	100	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.618000	0.000000	0.000000	0.000000	0.064600	0.000000	0.087000	0.230400	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
NaturalGas Unmitigated	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	1966.45	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0212**	**0.1928**	**0.1619**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**		**231.3476**	**231.3476**	**4.4300e-003**	**4.2400e-003**	**232.7556**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	1.96645	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0212**	**0.1928**	**0.1619**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**		**231.3476**	**231.3476**	**4.4300e-003**	**4.2400e-003**	**232.7556**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.9095	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Unmitigated	14.9095	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.4484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7600e-003	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Total	**14.9094**	**3.7000e-004**	**0.0397**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0843**	**0.0843**	**2.3000e-004**		**0.0891**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.4484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7600e-003	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Total	**14.9094**	**3.7000e-004**	**0.0397**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0843**	**0.0843**	**2.3000e-004**		**0.0891**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Hallmark

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	335.40	1000sqft	7.70	335,400.00	0
Other Non-Asphalt Surfaces	44.14	1000sqft	1.01	44,143.00	0
Parking Lot	5.72	Acre	5.72	249,163.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

Demolition - Demolition - Parking lot

Vehicle Trips - Trip rate per the Traffic Study

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Water And Wastewater - CA Dept of Water Resources Water Budget Workbook

Construction Off-road Equipment Mitigation - Water Exposed Area 3 times daily

Architectural Coating - Interior and exterior coatings - 0 g/L

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD1	0.04	0.06

tblVehicleEF	LHD2	6.6660e-003	0.00
tblVehicleEF	LHD2	6.6660e-003	0.00
tblVehicleEF	LHD2	6.6660e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleTrips	CNW_TL	6.90	17.41
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	2.59	3.56
tblWater	OutdoorWaterUseRate	0.00	615,180.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	6.1755	69.6953	47.8835	0.0841	18.2675	3.3190	21.0233	9.9840	3.0535	12.5194	0.0000	7,664.6163	7,664.6163	1.9457	0.0000	7,705.4751
2018	4.3804	32.1572	41.6496	0.0840	3.5948	1.6407	5.2355	0.9660	1.5396	2.5056	0.0000	7,492.1846	7,492.1846	0.7926	0.0000	7,508.8293
Total	**10.5559**	**101.8524**	**89.5331**	**0.1681**	**21.8623**	**4.9597**	**26.2588**	**10.9500**	**4.5931**	**15.0250**	**0.0000**	**15,156.8009**	**15,156.8009**	**2.7383**	**0.0000**	**15,214.3045**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	6.1755	69.6953	47.8835	0.0841	7.2470	3.3190	10.0029	3.9263	3.0535	6.4617	0.0000	7,664.6163	7,664.6163	1.9457	0.0000	7,705.4751
2018	4.3804	32.1572	41.6496	0.0840	3.5948	1.6407	5.2355	0.9660	1.5396	2.5056	0.0000	7,492.1846	7,492.1846	0.7926	0.0000	7,508.8293
Total	**10.5559**	**101.8524**	**89.5331**	**0.1681**	**10.8419**	**4.9597**	**15.2384**	**4.8923**	**4.5931**	**8.9673**	**0.0000**	**15,156.8009**	**15,156.8009**	**2.7383**	**0.0000**	**15,214.3045**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.41**	**0.00**	**41.97**	**55.32**	**0.00**	**40.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	14.9095	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Energy	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
Mobile	6.5795	68.5286	89.2499	0.3254	16.2125	1.2048	17.4173	4.3853	1.1088	5.4941		28,836.8260	28,836.8260	0.4798		28,846.9027
Total	**21.5102**	**68.7218**	**89.4515**	**0.3265**	**16.2125**	**1.2196**	**17.4321**	**4.3853**	**1.1236**	**5.5089**		**29,068.2580**	**29,068.2580**	**0.4845**	**4.2400e-003**	**29,079.7473**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	14.9095	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Energy	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
Mobile	6.5795	68.5286	89.2499	0.3254	16.2125	1.2048	17.4173	4.3853	1.1088	5.4941		28,836.8260	28,836.8260	0.4798		28,846.9027
Total	**21.5102**	**68.7218**	**89.4515**	**0.3265**	**16.2125**	**1.2196**	**17.4321**	**4.3853**	**1.1236**	**5.5089**		**29,068.2580**	**29,068.2580**	**0.4845**	**4.2400e-003**	**29,079.7473**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/10/2017	5	10	
3	Grading	Grading	2/11/2017	3/24/2017	5	30	
4	Building Construction	Building Construction	3/25/2017	5/18/2018	5	300	
5	Paving	Paving	5/19/2018	6/15/2018	5	20	
6	Architectural Coating	Architectural Coating	6/16/2018	7/13/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 580,527; Non-Residential Outdoor: 193,509 (Architectural Coating –

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	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	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	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Scrapers	2	8.00	361	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	0.00	801.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	264.00	103.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	53.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6709	0.0000	8.6709	1.3129	0.0000	1.3129			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**8.6709**	**2.1252**	**10.7961**	**1.3129**	**1.9797**	**3.2926**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6866	10.5398	8.6194	0.0295	0.6978	0.1573	0.8551	0.1911	0.1447	0.3358		2,924.1205	2,924.1205	0.0212		2,924.5661
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0573	0.0775	0.8088	1.9900e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		160.9269	160.9269	8.4400e-003		161.1042
Total	**0.7438**	**10.6172**	**9.4282**	**0.0315**	**0.8655**	**0.1586**	**1.0241**	**0.2356**	**0.1459**	**0.3815**		**3,085.0473**	**3,085.0473**	**0.0297**		**3,085.6702**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3816	0.0000	3.3816	0.5120	0.0000	0.5120			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**3.3816**	**2.1252**	**5.5068**	**0.5120**	**1.9797**	**2.4917**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6866	10.5398	8.6194	0.0295	0.6978	0.1573	0.8551	0.1911	0.1447	0.3358		2,924.1205	2,924.1205	0.0212		2,924.5661
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0573	0.0775	0.8088	1.9900e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		160.9269	160.9269	8.4400e-003		161.1042
Total	**0.7438**	**10.6172**	**9.4282**	**0.0315**	**0.8655**	**0.1586**	**1.0241**	**0.2356**	**0.1459**	**0.3815**		**3,085.0473**	**3,085.0473**	**0.0297**		**3,085.6702**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**18.0663**	**2.7542**	**20.8205**	**9.9307**	**2.5339**	**12.4646**		**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0687	0.0929	0.9706	2.3900e-003	0.2012	1.6200e-003	0.2028	0.0534	1.4900e-003	0.0549		193.1123	193.1123	0.0101		193.3250
Total	**0.0687**	**0.0929**	**0.9706**	**2.3900e-003**	**0.2012**	**1.6200e-003**	**0.2028**	**0.0534**	**1.4900e-003**	**0.0549**		**193.1123**	**193.1123**	**0.0101**		**193.3250**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**7.0458**	**2.7542**	**9.8001**	**3.8730**	**2.5339**	**6.4069**	**0.0000**	**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0687	0.0929	0.9706	2.3900e-003	0.2012	1.6200e-003	0.2028	0.0534	1.4900e-003	0.0549		193.1123	193.1123	0.0101		193.3250
Total	**0.0687**	**0.0929**	**0.9706**	**2.3900e-003**	**0.2012**	**1.6200e-003**	**0.2028**	**0.0534**	**1.4900e-003**	**0.0549**		**193.1123**	**193.1123**	**0.0101**		**193.3250**

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**6.0991**	**69.5920**	**46.8050**	**0.0617**	**8.6733**	**3.3172**	**11.9905**	**3.5965**	**3.0518**	**6.6483**		**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0764	0.1033	1.0784	2.6500e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		214.5692	214.5692	0.0113		214.8056
Total	**0.0764**	**0.1033**	**1.0784**	**2.6500e-003**	**0.2236**	**1.8000e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.5692**	**214.5692**	**0.0113**		**214.8056**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915
Total	**6.0991**	**69.5920**	**46.8050**	**0.0617**	**3.3826**	**3.3172**	**6.6998**	**1.4026**	**3.0518**	**4.4545**	**0.0000**	**6,313.3690**	**6,313.3690**	**1.9344**		**6,353.9915**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0764	0.1033	1.0784	2.6500e-003	0.2236	1.8000e-003	0.2254	0.0593	1.6600e-003	0.0610		214.5692	214.5692	0.0113		214.8056
Total	**0.0764**	**0.1033**	**1.0784**	**2.6500e-003**	**0.2236**	**1.8000e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.5692**	**214.5692**	**0.0113**		**214.8056**

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8614	8.3458	11.7067	0.0222	0.6439	0.1309	0.7748	0.1834	0.1204	0.3038		2,192.4979	2,192.4979	0.0161		2,192.8355
Worker	1.0078	1.3631	14.2354	0.0350	2.9509	0.0237	2.9746	0.7826	0.0219	0.8045		2,832.3131	2,832.3131	0.1486		2,835.4333
Total	**1.8692**	**9.7089**	**25.9421**	**0.0573**	**3.5948**	**0.1546**	**3.7494**	**0.9660**	**0.1423**	**1.1083**		**5,024.8109**	**5,024.8109**	**0.1647**		**5,028.2688**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**	**0.0000**	**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8614	8.3458	11.7067	0.0222	0.6439	0.1309	0.7748	0.1834	0.1204	0.3038		2,192.4979	2,192.4979	0.0161		2,192.8355
Worker	1.0078	1.3631	14.2354	0.0350	2.9509	0.0237	2.9746	0.7826	0.0219	0.8045		2,832.3131	2,832.3131	0.1486		2,835.4333
Total	**1.8692**	**9.7089**	**25.9421**	**0.0573**	**3.5948**	**0.1546**	**3.7494**	**0.9660**	**0.1423**	**1.1083**		**5,024.8109**	**5,024.8109**	**0.1647**		**5,028.2688**

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	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8053	7.6601	11.2338	0.0222	0.6439	0.1233	0.7673	0.1834	0.1134	0.2968		2,155.6929	2,155.6929	0.0160		2,156.0288
Worker	0.9064	1.2363	12.8832	0.0350	2.9509	0.0231	2.9740	0.7826	0.0214	0.8040		2,726.5528	2,726.5528	0.1379		2,729.4488
Total	**1.7117**	**8.8964**	**24.1169**	**0.0572**	**3.5948**	**0.1464**	**3.7413**	**0.9660**	**0.1348**	**1.1008**		**4,882.2457**	**4,882.2457**	**0.1539**		**4,885.4776**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**	**0.0000**	**2,609.9389**	**2,609.9389**	**0.6387**		**2,623.3517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8053	7.6601	11.2338	0.0222	0.6439	0.1233	0.7673	0.1834	0.1134	0.2968		2,155.6929	2,155.6929	0.0160		2,156.0288
Worker	0.9064	1.2363	12.8832	0.0350	2.9509	0.0231	2.9740	0.7826	0.0214	0.8040		2,726.5528	2,726.5528	0.1379		2,729.4488
Total	**1.7117**	**8.8964**	**24.1169**	**0.0572**	**3.5948**	**0.1464**	**3.7413**	**0.9660**	**0.1348**	**1.1008**		**4,882.2457**	**4,882.2457**	**0.1539**		**4,885.4776**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635		2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3607**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**		**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0515	0.0702	0.7320	1.9900e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		154.9178	154.9178	7.8400e-003		155.0823
Total	**0.0515**	**0.0702**	**0.7320**	**1.9900e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**154.9178**	**154.9178**	**7.8400e-003**		**155.0823**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635	0.0000	2,245.2695	2,245.2695	0.6990		2,259.9481
Paving	0.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3607**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**	**0.0000**	**2,245.2695**	**2,245.2695**	**0.6990**		**2,259.9481**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0515	0.0702	0.7320	1.9900e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		154.9178	154.9178	7.8400e-003		155.0823
Total	**0.0515**	**0.0702**	**0.7320**	**1.9900e-003**	**0.1677**	**1.3100e-003**	**0.1690**	**0.0445**	**1.2100e-003**	**0.0457**		**154.9178**	**154.9178**	**7.8400e-003**		**155.0823**

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**0.2986**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.0102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1820	0.2482	2.5864	7.0300e-003	0.5924	4.6400e-003	0.5971	0.1571	4.2900e-003	0.1614		547.3761	547.3761	0.0277		547.9575
Total	**0.1820**	**0.2482**	**2.5864**	**7.0300e-003**	**0.5924**	**4.6400e-003**	**0.5971**	**0.1571**	**4.2900e-003**	**0.1614**		**547.3761**	**547.3761**	**0.0277**		**547.9575**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**0.2986**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.0102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1820	0.2482	2.5864	7.0300e-003	0.5924	4.6400e-003	0.5971	0.1571	4.2900e-003	0.1614		547.3761	547.3761	0.0277		547.9575
Total	**0.1820**	**0.2482**	**2.5864**	**7.0300e-003**	**0.5924**	**4.6400e-003**	**0.5971**	**0.1571**	**4.2900e-003**	**0.1614**		**547.3761**	**547.3761**	**0.0277**		**547.9575**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.5795	68.5286	89.2499	0.3254	16.2125	1.2048	17.4173	4.3853	1.1088	5.4941		28,836.8260	28,836.8260	0.4798		28,846.9027
Unmitigated	6.5795	68.5286	89.2499	0.3254	16.2125	1.2048	17.4173	4.3853	1.1088	5.4941		28,836.8260	28,836.8260	0.4798		28,846.9027

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,194.02	1,194.02	1194.02	7,359,109	7,359,109
Total	1,194.02	1,194.02	1,194.02	7,359,109	7,359,109

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	17.41	59.00	0.00	41.00	100	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.618000	0.000000	0.000000	0.000000	0.064600	0.000000	0.087000	0.230400	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
NaturalGas Unmitigated	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1966.45	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0212**	**0.1928**	**0.1619**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**		**231.3476**	**231.3476**	**4.4300e-003**	**4.2400e-003**	**232.7556**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unrefrigerated Warehouse-No Rail	1.96645	0.0212	0.1928	0.1619	1.1600e-003		0.0147	0.0147		0.0147	0.0147		231.3476	231.3476	4.4300e-003	4.2400e-003	232.7556
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0212**	**0.1928**	**0.1619**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**		**231.3476**	**231.3476**	**4.4300e-003**	**4.2400e-003**	**232.7556**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.9095	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Unmitigated	14.9095	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.4484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7600e-003	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Total	**14.9094**	**3.7000e-004**	**0.0397**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0843**	**0.0843**	**2.3000e-004**		**0.0891**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.4573					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.4484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.7600e-003	3.7000e-004	0.0397	0.0000		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004		0.0843	0.0843	2.3000e-004		0.0891
Total	**14.9094**	**3.7000e-004**	**0.0397**	**0.0000**		**1.4000e-004**	**1.4000e-004**		**1.4000e-004**	**1.4000e-004**		**0.0843**	**0.0843**	**2.3000e-004**		**0.0891**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Hallmark

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	335.40	1000sqft	7.70	335,400.00	0
Other Non-Asphalt Surfaces	44.14	1000sqft	1.01	44,143.00	0
Parking Lot	5.72	Acre	5.72	249,163.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase -

Demolition - Demolition - Parking lot

Vehicle Trips - Trip rate per the Traffic Study

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Vechicle Emission Factors - Fleet mix pursuant to SCAQMD recommendation

Water And Wastewater - CA Dept of Water Resources Water Budget Workbook

Construction Off-road Equipment Mitigation - Water Exposed Area 3 times daily

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	OperationalYear	2014	2019
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	HHD	0.03	0.23
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDA	0.51	0.62
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LDT2	0.18	0.00
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD2	6.6660e-003	0.00
tblVehicleEF	LHD2	6.6660e-003	0.00

tblVehicleEF	LHD2	6.6660e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MCY	4.3770e-003	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MDV	0.14	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MH	2.1280e-003	0.00
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	MHD	0.02	0.09
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	OBUS	1.9400e-003	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	SBUS	5.8200e-004	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleEF	UBUS	2.4960e-003	0.00
tblVehicleTrips	CNW_TL	6.90	17.41
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.59	3.56
tblVehicleTrips	SU_TR	2.59	3.56
tblVehicleTrips	WD_TR	2.59	3.56
tblWater	OutdoorWaterUseRate	0.00	615,180.00

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					
2017	0.6538	5.4716	5.7619	0.0104	0.6730	0.2799	0.9529	0.2152	0.2612	0.4764	0.0000	872.8920	872.8920	0.1163	0.0000	875.3332
2018	4.7286	1.8122	2.2798	4.5800e-003	0.1840	0.0930	0.2769	0.0495	0.0872	0.1366	0.0000	371.6431	371.6431	0.0428	0.0000	372.5428
Total	**5.3823**	**7.2838**	**8.0417**	**0.0149**	**0.8570**	**0.3729**	**1.2298**	**0.2647**	**0.3483**	**0.6130**	**0.0000**	**1,244.5350**	**1,244.5350**	**0.1591**	**0.0000**	**1,247.8760**

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					
2017	0.6538	5.4716	5.7619	0.0104	0.4856	0.2799	0.7655	0.1440	0.2612	0.4052	0.0000	872.8915	872.8915	0.1163	0.0000	875.3328
2018	4.7286	1.8122	2.2798	4.5800e-003	0.1840	0.0930	0.2769	0.0495	0.0872	0.1366	0.0000	371.6429	371.6429	0.0428	0.0000	372.5426
Total	**5.3823**	**7.2838**	**8.0417**	**0.0149**	**0.6696**	**0.3729**	**1.0425**	**0.1935**	**0.3483**	**0.5418**	**0.0000**	**1,244.5344**	**1,244.5344**	**0.1591**	**0.0000**	**1,247.8754**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**21.86**	**0.00**	**15.23**	**26.90**	**0.00**	**11.61**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7208	5.0000e-005	4.9600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.5600e-003	9.5600e-003	3.0000e-005	0.0000	0.0101
Energy	3.8700e-003	0.0352	0.0296	2.1000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	390.9089	390.9089	0.0169	4.0600e-003	392.5220
Mobile	1.1735	12.6840	16.1036	0.0595	2.8990	0.2186	3.1177	0.7855	0.2012	0.9867	0.0000	4,780.7210	4,780.7210	0.0789	0.0000	4,782.3780
Waste						0.0000	0.0000		0.0000	0.0000	63.9990	0.0000	63.9990	3.7822	0.0000	143.4259
Water						0.0000	0.0000		0.0000	0.0000	24.6066	290.9630	315.5696	2.5407	0.0624	388.2818
Total	**3.8981**	**12.7193**	**16.1381**	**0.0597**	**2.8990**	**0.2213**	**3.1204**	**0.7855**	**0.2039**	**0.9894**	**88.6056**	**5,462.6024**	**5,551.2080**	**6.4188**	**0.0665**	**5,706.6177**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7208	5.0000e-005	4.9600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.5600e-003	9.5600e-003	3.0000e-005	0.0000	0.0101
Energy	3.8700e-003	0.0352	0.0296	2.1000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	390.9089	390.9089	0.0169	4.0600e-003	392.5220
Mobile	1.1735	12.6840	16.1036	0.0595	2.8990	0.2186	3.1177	0.7855	0.2012	0.9867	0.0000	4,780.7210	4,780.7210	0.0789	0.0000	4,782.3780
Waste						0.0000	0.0000		0.0000	0.0000	63.9990	0.0000	63.9990	3.7822	0.0000	143.4259
Water						0.0000	0.0000		0.0000	0.0000	24.6066	290.9630	315.5696	2.5403	0.0624	388.2425
Total	**3.8981**	**12.7193**	**16.1381**	**0.0597**	**2.8990**	**0.2213**	**3.1204**	**0.7855**	**0.2039**	**0.9894**	**88.6056**	**5,462.6024**	**5,551.2080**	**6.4184**	**0.0664**	**5,706.5785**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.14**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/10/2017	5	10	
3	Grading	Grading	2/11/2017	3/24/2017	5	30	
4	Building Construction	Building Construction	3/25/2017	5/18/2018	5	300	
5	Paving	Paving	5/19/2018	6/15/2018	5	20	
6	Architectural Coating	Architectural Coating	6/16/2018	7/13/2018	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 580,527; Non-Residential Outdoor: 193,509 (Architectural Coating –

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	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	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	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Scrapers	2	8.00	361	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	0.00	801.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	264.00	103.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	53.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0867	0.0000	0.0867	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8292
Total	**0.0405**	**0.4270**	**0.3389**	**4.0000e-004**	**0.0867**	**0.0213**	**0.1080**	**0.0131**	**0.0198**	**0.0329**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8292**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7700e-003	0.1072	0.0846	3.0000e-004	6.8700e-003	1.5700e-003	8.4400e-003	1.8800e-003	1.4500e-003	3.3300e-003	0.0000	26.5638	26.5638	1.9000e-004	0.0000	26.5678
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843

Total	**7.3100e-003**	**0.1080**	**0.0929**	**3.2000e-004**	**8.5200e-003**	**1.5800e-003**	**0.0101**	**2.3200e-003**	**1.4600e-003**	**3.7800e-003**	**0.0000**	**28.0465**	**28.0465**	**2.7000e-004**	**0.0000**	**28.0521**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0338	0.0000	0.0338	5.1200e-003	0.0000	5.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291
Total	**0.0405**	**0.4270**	**0.3389**	**4.0000e-004**	**0.0338**	**0.0213**	**0.0551**	**5.1200e-003**	**0.0198**	**0.0249**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8291**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7700e-003	0.1072	0.0846	3.0000e-004	6.8700e-003	1.5700e-003	8.4400e-003	1.8800e-003	1.4500e-003	3.3300e-003	0.0000	26.5638	26.5638	1.9000e-004	0.0000	26.5678
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843
Total	**7.3100e-003**	**0.1080**	**0.0929**	**3.2000e-004**	**8.5200e-003**	**1.5800e-003**	**0.0101**	**2.3200e-003**	**1.4600e-003**	**3.7800e-003**	**0.0000**	**28.0465**	**28.0465**	**2.7000e-004**	**0.0000**	**28.0521**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0242	0.2588	0.1970	2.0000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	18.1577	18.1577	5.5600e-003	0.0000	18.2745
Total	**0.0242**	**0.2588**	**0.1970**	**2.0000e-004**	**0.0903**	**0.0138**	**0.1041**	**0.0497**	**0.0127**	**0.0623**	**0.0000**	**18.1577**	**18.1577**	**5.5600e-003**	**0.0000**	**18.2745**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	4.8000e-004	4.9700e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8896	0.8896	5.0000e-005	0.0000	0.8906
Total	**3.2000e-004**	**4.8000e-004**	**4.9700e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8896**	**0.8896**	**5.0000e-005**	**0.0000**	**0.8906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0242	0.2588	0.1970	2.0000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	18.1577	18.1577	5.5600e-003	0.0000	18.2745
Total	**0.0242**	**0.2588**	**0.1970**	**2.0000e-004**	**0.0352**	**0.0138**	**0.0490**	**0.0194**	**0.0127**	**0.0320**	**0.0000**	**18.1577**	**18.1577**	**5.5600e-003**	**0.0000**	**18.2745**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	4.8000e-004	4.9700e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8896	0.8896	5.0000e-005	0.0000	0.8906
Total	**3.2000e-004**	**4.8000e-004**	**4.9700e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8896**	**0.8896**	**5.0000e-005**	**0.0000**	**0.8906**

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0915	1.0439	0.7021	9.3000e-004		0.0498	0.0498		0.0458	0.0458	0.0000	85.9109	85.9109	0.0263	0.0000	86.4637
Total	**0.0915**	**1.0439**	**0.7021**	**9.3000e-004**	**0.1301**	**0.0498**	**0.1799**	**0.0540**	**0.0458**	**0.0997**	**0.0000**	**85.9109**	**85.9109**	**0.0263**	**0.0000**	**86.4637**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.0800e-003	1.5900e-003	0.0166	4.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9653	2.9653	1.5000e-004	0.0000	2.9685
Total	**1.0800e-003**	**1.5900e-003**	**0.0166**	**4.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3200e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9653**	**2.9653**	**1.5000e-004**	**0.0000**	**2.9685**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0507	0.0000	0.0507	0.0210	0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0915	1.0439	0.7021	9.3000e-004		0.0498	0.0498		0.0458	0.0458	0.0000	85.9108	85.9108	0.0263	0.0000	86.4636
Total	**0.0915**	**1.0439**	**0.7021**	**9.3000e-004**	**0.0507**	**0.0498**	**0.1005**	**0.0210**	**0.0458**	**0.0668**	**0.0000**	**85.9108**	**85.9108**	**0.0263**	**0.0000**	**86.4636**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.0800e-003	1.5900e-003	0.0166	4.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9653	2.9653	1.5000e-004	0.0000	2.9685
Total	**1.0800e-003**	**1.5900e-003**	**0.0166**	**4.0000e-005**	**3.2900e-003**	**3.0000e-005**	**3.3200e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.9653**	**2.9653**	**1.5000e-004**	**0.0000**	**2.9685**

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3102	2.6406	1.8129	2.6800e-003		0.1781	0.1781		0.1673	0.1673	0.0000	239.4791	239.4791	0.0589	0.0000	240.7169
Total	**0.3102**	**2.6406**	**1.8129**	**2.6800e-003**		**0.1781**	**0.1781**		**0.1673**	**0.1673**	**0.0000**	**239.4791**	**239.4791**	**0.0589**	**0.0000**	**240.7169**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	0.0838	0.8510	1.1376	2.2300e-003	0.0634	0.0130	0.0764	0.0181	0.0120	0.0301	0.0000	199.8774	199.8774	1.4300e-003	0.0000	199.9075
Worker	0.0948	0.1404	1.4590	3.5600e-003	0.2896	2.3700e-003	0.2920	0.0769	2.1900e-003	0.0791	0.0000	260.9473	260.9473	0.0135	0.0000	261.2304
Total	**0.1786**	**0.9913**	**2.5966**	**5.7900e-003**	**0.3530**	**0.0154**	**0.3684**	**0.0950**	**0.0142**	**0.1092**	**0.0000**	**460.8247**	**460.8247**	**0.0149**	**0.0000**	**461.1378**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3102	2.6406	1.8129	2.6800e-003		0.1781	0.1781		0.1673	0.1673	0.0000	239.4788	239.4788	0.0589	0.0000	240.7166
Total	**0.3102**	**2.6406**	**1.8129**	**2.6800e-003**		**0.1781**	**0.1781**		**0.1673**	**0.1673**	**0.0000**	**239.4788**	**239.4788**	**0.0589**	**0.0000**	**240.7166**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	0.0838	0.8510	1.1376	2.2300e-003	0.0634	0.0130	0.0764	0.0181	0.0120	0.0301	0.0000	199.8774	199.8774	1.4300e-003	0.0000	199.9075
Worker	0.0948	0.1404	1.4590	3.5600e-003	0.2896	2.3700e-003	0.2920	0.0769	2.1900e-003	0.0791	0.0000	260.9473	260.9473	0.0135	0.0000	261.2304
Total	**0.1786**	**0.9913**	**2.5966**	**5.7900e-003**	**0.3530**	**0.0154**	**0.3684**	**0.0950**	**0.0142**	**0.1092**	**0.0000**	**460.8247**	**460.8247**	**0.0149**	**0.0000**	**461.1378**

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	0.1334	1.1630	0.8766	1.3400e-003		0.0747	0.0747		0.0702	0.0702	0.0000	118.3848	118.3848	0.0290	0.0000	118.9932
Total	**0.1334**	**1.1630**	**0.8766**	**1.3400e-003**		**0.0747**	**0.0747**		**0.0702**	**0.0702**	**0.0000**	**118.3848**	**118.3848**	**0.0290**	**0.0000**	**118.9932**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	0.0392	0.3905	0.5449	1.1200e-003	0.0317	6.1300e-003	0.0378	9.0500e-003	5.6400e-003	0.0147	0.0000	98.2621	98.2621	7.1000e-004	0.0000	98.2770
Worker	0.0426	0.0637	0.6607	1.7800e-003	0.1448	1.1600e-003	0.1460	0.0385	1.0700e-003	0.0395	0.0000	125.6037	125.6037	6.2600e-003	0.0000	125.7350
Total	**0.0818**	**0.4542**	**1.2056**	**2.9000e-003**	**0.1765**	**7.2900e-003**	**0.1838**	**0.0475**	**6.7100e-003**	**0.0542**	**0.0000**	**223.8657**	**223.8657**	**6.9700e-003**	**0.0000**	**224.0121**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1334	1.1630	0.8766	1.3400e-003		0.0747	0.0747		0.0702	0.0702	0.0000	118.3847	118.3847	0.0290	0.0000	118.9931
Total	**0.1334**	**1.1630**	**0.8766**	**1.3400e-003**		**0.0747**	**0.0747**		**0.0702**	**0.0702**	**0.0000**	**118.3847**	**118.3847**	**0.0290**	**0.0000**	**118.9931**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	0.0392	0.3905	0.5449	1.1200e-003	0.0317	6.1300e-003	0.0378	9.0500e-003	5.6400e-003	0.0147	0.0000	98.2621	98.2621	7.1000e-004	0.0000	98.2770
Worker	0.0426	0.0637	0.6607	1.7800e-003	0.1448	1.1600e-003	0.1460	0.0385	1.0700e-003	0.0395	0.0000	125.6037	125.6037	6.2600e-003	0.0000	125.7350
Total	**0.0818**	**0.4542**	**1.2056**	**2.9000e-003**	**0.1765**	**7.2900e-003**	**0.1838**	**0.0475**	**6.7100e-003**	**0.0542**	**0.0000**	**223.8657**	**223.8657**	**6.9700e-003**	**0.0000**	**224.0121**

3.6 Paving - 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	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving	7.4900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0236**	**0.1716**	**0.1449**	**2.2000e-004**		**9.3900e-003**	**9.3900e-003**		**8.6400e-003**	**8.6400e-003**	**0.0000**	**20.3687**	**20.3687**	**6.3400e-003**	**0.0000**	**20.5019**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	4.8000e-004	7.2000e-004	7.5100e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4273	1.4273	7.0000e-005	0.0000	1.4288
Total	**4.8000e-004**	**7.2000e-004**	**7.5100e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4273**	**1.4273**	**7.0000e-005**	**0.0000**	**1.4288**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0161	0.1716	0.1449	2.2000e-004		9.3900e-003	9.3900e-003		8.6400e-003	8.6400e-003	0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving	7.4900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0236**	**0.1716**	**0.1449**	**2.2000e-004**		**9.3900e-003**	**9.3900e-003**		**8.6400e-003**	**8.6400e-003**	**0.0000**	**20.3687**	**20.3687**	**6.3400e-003**	**0.0000**	**20.5019**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	4.8000e-004	7.2000e-004	7.5100e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4273	1.4273	7.0000e-005	0.0000	1.4288
Total	**4.8000e-004**	**7.2000e-004**	**7.5100e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4273**	**1.4273**	**7.0000e-005**	**0.0000**	**1.4288**

3.7 Architectural Coating - 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					
Archit. Coating	4.4846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
Total	**4.4876**	**0.0201**	**0.0185**	**3.0000e-005**		**1.5100e-003**	**1.5100e-003**		**1.5100e-003**	**1.5100e-003**	**0.0000**	**2.5533**	**2.5533**	**2.4000e-004**	**0.0000**	**2.5584**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.7100e-003	2.5600e-003	0.0265	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	4.0000e-005	1.5900e-003	0.0000	5.0432	5.0432	2.5000e-004	0.0000	5.0485
Total	**1.7100e-003**	**2.5600e-003**	**0.0265**	**7.0000e-005**	**5.8100e-003**	**5.0000e-005**	**5.8600e-003**	**1.5400e-003**	**4.0000e-005**	**1.5900e-003**	**0.0000**	**5.0432**	**5.0432**	**2.5000e-004**	**0.0000**	**5.0485**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.4846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
Total	**4.4876**	**0.0201**	**0.0185**	**3.0000e-005**		**1.5100e-003**	**1.5100e-003**		**1.5100e-003**	**1.5100e-003**	**0.0000**	**2.5533**	**2.5533**	**2.4000e-004**	**0.0000**	**2.5584**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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	1.7100e-003	2.5600e-003	0.0265	7.0000e-005	5.8100e-003	5.0000e-005	5.8600e-003	1.5400e-003	4.0000e-005	1.5900e-003	0.0000	5.0432	5.0432	2.5000e-004	0.0000	5.0485
Total	**1.7100e-003**	**2.5600e-003**	**0.0265**	**7.0000e-005**	**5.8100e-003**	**5.0000e-005**	**5.8600e-003**	**1.5400e-003**	**4.0000e-005**	**1.5900e-003**	**0.0000**	**5.0432**	**5.0432**	**2.5000e-004**	**0.0000**	**5.0485**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1735	12.6840	16.1036	0.0595	2.8990	0.2186	3.1177	0.7855	0.2012	0.9867	0.0000	4,780.7210	4,780.7210	0.0789	0.0000	4,782.3780
Unmitigated	1.1735	12.6840	16.1036	0.0595	2.8990	0.2186	3.1177	0.7855	0.2012	0.9867	0.0000	4,780.7210	4,780.7210	0.0789	0.0000	4,782.3780

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,194.02	1,194.02	1194.02	7,359,109	7,359,109
Total	1,194.02	1,194.02	1,194.02	7,359,109	7,359,109

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	17.41	59.00	0.00	41.00	100	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.618000	0.000000	0.000000	0.000000	0.064600	0.000000	0.087000	0.230400	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	352.6067	352.6067	0.0162	3.3500e-003	353.9867
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	352.6067	352.6067	0.0162	3.3500e-003	353.9867
NaturalGas Mitigated	3.8700e-003	0.0352	0.0296	2.1000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	38.3022	38.3022	7.3000e-004	7.0000e-004	38.5353
NaturalGas Unmitigated	3.8700e-003	0.0352	0.0296	2.1000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	38.3022	38.3022	7.3000e-004	7.0000e-004	38.5353

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	717756	3.8700e-003	0.0352	0.0296	2.1000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	38.3022	38.3022	7.3000e-004	7.0000e-004	38.5353
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.8700e-003**	**0.0352**	**0.0296**	**2.1000e-004**		**2.6700e-003**	**2.6700e-003**		**2.6700e-003**	**2.6700e-003**	**0.0000**	**38.3022**	**38.3022**	**7.3000e-004**	**7.0000e-004**	**38.5353**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-No Rail	717756	3.8700e-003	0.0352	0.0296	2.1000e-004		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	38.3022	38.3022	7.3000e-004	7.0000e-004	38.5353
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.8700e-003**	**0.0352**	**0.0296**	**2.1000e-004**		**2.6700e-003**	**2.6700e-003**		**2.6700e-003**	**2.6700e-003**	**0.0000**	**38.3022**	**38.3022**	**7.3000e-004**	**7.0000e-004**	**38.5353**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219264	62.7460	2.8800e-003	6.0000e-004	62.9915
Unrefrigerated Warehouse-No Rail	1.01291e+006	289.8607	0.0133	2.7600e-003	290.9951
Total		**352.6067**	**0.0162**	**3.3600e-003**	**353.9867**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219264	62.7460	2.8800e-003	6.0000e-004	62.9915
Unrefrigerated Warehouse-No Rail	1.01291e+006	289.8607	0.0133	2.7600e-003	290.9951
Total		**352.6067**	**0.0162**	**3.3600e-003**	**353.9867**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7208	5.0000e-005	4.9600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.5600e-003	9.5600e-003	3.0000e-005	0.0000	0.0101
Unmitigated	2.7208	5.0000e-005	4.9600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.5600e-003	9.5600e-003	3.0000e-005	0.0000	0.0101

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4485					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7000e-004	5.0000e-005	4.9600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.5600e-003	9.5600e-003	3.0000e-005	0.0000	0.0101
Total	**2.7208**	**5.0000e-005**	**4.9600e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**9.5600e-003**	**9.5600e-003**	**3.0000e-005**	**0.0000**	**0.0101**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4485					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7000e-004	5.0000e-005	4.9600e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.5600e-003	9.5600e-003	3.0000e-005	0.0000	0.0101
Total	**2.7208**	**5.0000e-005**	**4.9600e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**9.5600e-003**	**9.5600e-003**	**3.0000e-005**	**0.0000**	**0.0101**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	315.5696	2.5403	0.0624	388.2425
Unmitigated	315.5696	2.5407	0.0624	388.2818

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0.61518	1.9559	9.0000e-005	2.0000e-005	1.9635
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	77.5613 / 0	313.6137	2.5406	0.0624	386.3183
Total		**315.5696**	**2.5407**	**0.0624**	**388.2818**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0.61518	1.9559	9.0000e-005	2.0000e-005	1.9635
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	77.5613 / 0	313.6137	2.5402	0.0623	386.2790
Total		**315.5696**	**2.5403**	**0.0624**	**388.2425**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	63.9990	3.7822	0.0000	143.4259
Unmitigated	63.9990	3.7822	0.0000	143.4259

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	315.28	63.9990	3.7822	0.0000	143.4259
Total		**63.9990**	**3.7822**	**0.0000**	**143.4259**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	315.28	63.9990	3.7822	0.0000	143.4259
Total		**63.9990**	**3.7822**	**0.0000**	**143.4259**

9.0 Operational Offroad

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

10.0 Vegetation