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M E M O R A N D U M

DATE: February 2, 2016

TO: Michael Bisch, Davis Commercial Properties

FROM: Amy Fischer, Principal

SUBJECT: Air Quality Impact Analysis – Hyatt House Project, Davis

INTRODUCTION

This Air Quality Impact Technical Memorandum for the proposed Hyatt House project (project) has been prepared using methods and assumptions recommended in the air quality impact assessment guidelines of the Yolo-Solano Air Quality Management District (Yolo-Solano AQMD)[1] and the City of Davis. This analysis follows the Yolo-Solano AQMD's *Handbook for Assessing and Mitigating Air Quality Impacts*, including an assessment of operational health risk impacts and an assessment of the project's greenhouse gas emissions consistent with the Davis Climate Action and Adaptation Plan. Mitigation measures to reduce or eliminate significant air quality impacts are identified, where appropriate.

The Hyatt House project site is located at 2750 Cowell Boulevard in the City of Davis. The 2.03 acre site is currently undeveloped and is located approximately 155 feet south of Interstate 80 (I-80). Single-family residential homes are located south of the project site and commercial uses are located to the east. A bicycle path is located south of the project site. The project would develop a 4-story, 120-room extended-stay hotel, comprising 75,490 square feet. The project would include 1-bedroom and 2-bedroom suites, a fitness center, a swimming pool, a kitchen/bar, and a lobby. The project would also provide 114 parking stalls and 24 bicycle parking spaces. The average length of stay for guests is expected to be approximately 14 days with an average occupancy rate target of 75 percent. The proposed project would implement energy-saving measures to work towards zero net energy by using energy-saving appliances, energy upgraded construction materials and high efficiency heating and cooling.

AIR QUALITY IMPACTS

The project would release emissions over the short-term during project construction and over the long-term from project operation. Long-term operational emissions occur consistently over the life of the project. Operational emissions are generated by the project by stationary sources, area sources and mobile sources. The total amount of these sources of emissions makes up the operational impact of the proposed project. The project also has the potential to expose sensitive receptors to pollutant concentrations due to the project site's proximity to the adjacent freeway.

[1] Yolo-Solano Air Quality Management District, 2007. *Handbook for Assessing and Mitigating Air Quality Impacts.* July.

Construction Emissions

Air pollutant emissions associated with the project would occur over the short-term from construction activities, such as fugitive dust from site preparation and grading and emissions from equipment exhaust and architectural coatings.

The California Emissions Estimator Model (CalEEMod) was used to estimate construction emissions for the proposed project; results of the model are shown in Table 1. Under this scenario, unmitigated project emissions would not exceed the Yolo-Solano AQMD's significance threshold for criteria pollutants. Although the project does not exceed the significance criteria, the AQMD recommends implementation of best management practices to reduce dust emissions and avoid localized health impacts.

Table 1: Project Construction Emissions

	Reactive Organic Gases (Tons/Year)	Nitrogen Oxides (Tons/Year)	PM_{10} (Pounds/Day)
Project Emissions	1.0	3.1	1.4
Yolo-Solano AQMD Significance Threshold	10	10	80
Exceed?	No	No	No

Source: LSA Associates, Inc., 2016

Construction Best Management Practices. To reduce PM_{10} emissions from construction activities, the project should implement the following best management practices.

- Unpaved areas subject to vehicle traffic must be stabilized by being kept wet, treated with a chemical dust suppressant, or covered.
- The speed of any vehicles and equipment traveling across unpaved areas must be no more than 15 miles per hour.
- Storage piles and disturbed areas not subject to vehicular traffic must be stabilized by being kept wet, treated with a chemical dust suppressant, or covered when material is not being added to or removed from the pile.
- Prior to any ground disturbance, including grading, excavating, and land clearing, sufficient water must be applied to the area to be disturbed to minimize dust emissions.
- Construction vehicles leaving the site shall be cleaned to prevent dust, silt, mud and dirt, from being released or tracked off-site.

Carbon Monoxide Effects of Traffic

Vehicular trips associated with the proposed project would contribute to the congestion at intersections and along roadway segments in the project vicinity.

The primary mobile source pollutant of local concern is CO. Carbon monoxide concentration is a direct function of vehicle idling time and, thus, traffic flow conditions. Carbon monoxide disperses rapidly with distance from the source under normal meteorological conditions. However, under

certain extreme meteorological conditions, CO concentrations proximate to a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors. Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes.

A traffic impact analysis (TIA) for the proposed project was prepared by KD Anderson & Associates, Inc.[2] The traffic report indicates that implementation of the proposed project will maintain acceptable Levels of Service (LOS) at all study intersections and the project will add about 2 percent of peak hour traffic to the roadway. Based on the CO screening procedures outlined in the Yolo-Solano AQMD handbook, the project would not reduce the level of service to an unacceptable LOS (E or F) and would not worsen an already existing peak-hour LOS F on one or more streets or intersections. Given the low volume of trips that the proposed project is expected to generate, CO impacts are not anticipated. Therefore, the project would not have the potential to create a violation of the State or federal CO standards.

Objectionable Odors

Heavy-duty equipment in the project area during construction would emit odors. However, the construction activity would be short-term and would cease to occur after project construction is completed. No other sources of objectionable odors have been identified for the proposed project. Therefore, the project would not be expected to generate or expose sensitive receptors to odors.

Regional Air Quality Impacts

Long-term air emission impacts are those associated with stationary sources and mobile sources related to the proposed project. Stationary source emissions result from the consumption of natural gas and electricity. Mobile source emissions result from vehicle trips generated by the project, resulting in air pollutant emissions affecting the entire Sacramento Valley Air Basin. Regional emissions associated with project's mobile sources were calculated using the CalEEMod model and the trip generation rates from the TIA. Appendix A contains model output worksheets.

The incremental daily emission increase associated with the project is identified in Table 2 for reactive organic gases (ROG) and nitrogen oxides (NO_x) (two precursors of ozone) and coarse particulate matter (PM_{10}). The Yolo-Solano AQMD has established thresholds of significance for ozone precursors (ROG and NO_x) at 10 tons per year and fugitive dust of 80 pounds per day. As shown in Table 2, the emissions associated with the project would be well below the significance threshold and, therefore the project would not be considered significant. No mitigation would be required.

Table 2: Project Regional Emissions

	Reactive Organic Gases (tons/year)	Nitrogen Oxides (tons/year)	PM_{10} (pounds/day)	$PM_{2.5}$ (pounds/day)
Project Emissions	0.85	1.16	3.5	1.0
Yolo-Solano AQMD Significance Threshold	10.0	10.0	80.0	NA
Exceed?	No	No	No	

Source: LSA Associates, Inc., 2016.

[2] KD Anderson & Associates, Inc., 2016. *Traffic Impact Analysis for Hyatt House Hotel Project*. January 12.

HEALTH RISK ASSESSMENT

The proposed project is not expected to be a source of Toxic Air Contaminants (TACs) that would result in significant air quality impacts. However, the proposed project would construct extended stay hotel rooms approximately 155 feet from I-80. The traffic on the freeway, as well as on local streets, includes both diesel-powered vehicles which emit diesel particulate and gasoline-powered vehicles which emit a number of TACs, all of which have been determined to pose cancer risks and may cause other health problems when exposed to the pollutants over the duration of a lifetime.

There are currently no federal project-level requirements for air toxics analysis, and CEQA only requires a consideration of the risks from toxics. The Yolo-Solano AQMD has a TAC threshold for development projects that have the potential to expose the public to TACs from stationary sources in excess of the thresholds established in the District's Risk Management Policy. While the District's Risk Management Policy provides a basis for a threshold for TACs from stationary sources, this policy does not cover TACs from mobile sources. Therefore, the project is not subject to a significance threshold for mobile source toxic emissions such as those from vehicle emissions from I-80. The District has no permitting or other regulatory authority over mobile sources, such as vehicle emissions.[3] However, because portions of the project site are located within 500 feet of I-80, the increased risk associated with exposure to freeway emissions was evaluated.

California's Office of Environmental Health Hazard Assessment (OEHHA) has determined that long-term exposure to diesel exhaust particulates poses cancer risk. Health risk analyses determine cancer risk levels over a 70-year exposure duration. LSA previously conducted a health risk assessment for residential units located within 150 feet of I-80 in the project vicinity. That analysis showed that the increased 70 year cancer risk would be 16 in 1 million for future residents of the project site. The proposed project is an extended-stay hotel and the average resident stay would be approximately 14 days. Based on our previous analysis findings, even if a guest of the hotel stayed for one year, the increased health risk would be well below 1 in 1 million, therefore, the potential inhalation health risks from diesel exhaust at the project site would not be significant due to the relatively short exposure duration.

Based on the hotel visitor's short duration of stay at the project site and due to the relatively low overall risk of exposure attributable to I-80, TAC emissions would not be considered a significant health risk. Future guests of the hotel would not be exposed to substantial pollutant concentrations.

GREENHOUSE GAS EMISSIONS

Greenhouse gases are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are: Carbon dioxide (CO_2);Methane (CH_4); Nitrous oxide (N_2O); Hydrofluorocarbons (HFCs); Perfluorocarbons (PFCs); and Sulfur Hexafluoride (SF_6).

Over the last 200 years, humans have caused substantial quantities of greenhouse gases to be released into the atmosphere. These extra emissions are increasing greenhouse gas concentrations in the atmosphere and enhancing the natural greenhouse effect, which is believed to be causing global

[3] Yolo-Solano Air Quality Management District, 2007, op. cit.

warming. While manmade greenhouse gases include naturally-occurring greenhouse gases such as CO_2, methane, and N_2O, some gases, like HFCs, PFCs, and SF_6 are completely new to the atmosphere.

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of greenhouse gases above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each greenhouse gas to trap heat in the atmosphere relative to another gas. The GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant greenhouse gas; the definition of GWP for a particular greenhouse gas is the ratio of heat trapped by one unit mass of the greenhouse gas to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. Greenhouse gas emissions are typically measured in terms of pounds or tons of "CO_2 equivalents" (CO_2e).

The proposed project would generate direct and indirect greenhouse gas emissions that contribute to global warming and climate change impacts. Although the contribution from an individual project may be minor, the cumulative impact can be substantial. The YSAQMD has not established specific thresholds applicable to greenhouse gas emissions; CEQA still requires an evaluation of greenhouse gases.

The California Global Warming Solution Action of 2006 (Assembly Bill 32) was adopted establishing a state goal of reduction of California's greenhouse gas emissions to 1990 levels by the year 2020. A subsequent Executive Order signed by the Governor establishes an additional target for State agencies of 80 percent below 1990 levels by 2050. The City of Davis has adopted local greenhouse gas emission reduction targets that are consistent with the State targets outlined in AB 32 and Executive Order S-3-06. The emission reduction targets require that projects make a fair share contribution to meet local and statewide reduction targets. This conclusion was based on the understanding that projects built today are expected to be in existence past the 2050 target date that calls for a minimum reduction of CO_2 to 80 percent below 1990 levels.

The 2010 City of Davis Climate Action and Adaptation Plan (D-CAAP) includes local reduction targets for greenhouse gas emissions for new development projects. By 2050, the City's CO_2 target is 80 percent below 1990 levels. Table 3 summarizes the targets from the Davis Climate Action and Adaptation Plan.

The D-CAAP includes a number of actions under different sector categories for implementation in order to begin achieving the emission reduction goals. The plan incorporates energy conservation in its community design of the buildings. The proposed project advocates uses that are consistent with the land use and community design requirements, by including a very high level of energy efficiency in the project design.

Table 3: Davis Greenhouse Gas Reduction Targets: Community and City Operations

Year	Target Range[a]		Notes
	State	Davis[b]	
2010	2000 levels	1990 levels	Minimum: State target. Desired: Provides baseline for subsequent average annual reductions.
2012	1998 levels	7 percent below 1990 levels	Minimum: State does not establish target for this year; linear interpolation from 2010 target. Desired: Consistent with Kyoto – Mayors Climate Protection Agreement Pledge – City of Davis Reso. 006.
2015	1995 levels	15 percent below 1990 levels	Minimum: State does not establish target for this year; linear interpolation from 2010 target. Desired: Consistent with initial ICLEI modeling conducted by the City.
2015 to 2020	Average annual reduction	Average of 2.6 percent reduction/year to achieve 80 percent below 1900 levels by 2014	Minimum: State does not establish target for these years. Desired: Average reduction encourages monitoring of progress and some flexibility in implementation.
2020	1990 levels	28 percent below 1990 levels	Minimum: State target. Desired: Average reduction encourages monitoring of progress and some flexibility in implementation.
2020 to 2040	No formal target, but must reduce an average of 2.66 percent per year to achieve 80 percent below 1990 levels by 2050	Average of 2.6 percent reduction per year to achieve 80 percent reduction below 1990 levels	Minimum: State does not establish target for these years. Desired: Reduction level adopted by the stat based on climate stabilization levels of 3-5.5 degree increase in temp. Average reduction encourages monitoring of progress and some flexibility in implementation.
2050	80 percent below 1990 levels	Carbon neutral	Minimum: State target. Reduction level adopted by the state based on climate stabilization levels of 3-5.5 degree in temp. Average reduction encourages monitoring of progress and some flexibility in implementation. Desired: Combination of actions at the local, regional, national, and international levels and carbon offsets. Similar target set by the UC system, City of Berkeley, and Norway.

[a] It is anticipated that Davis will achieve reductions within the range of the state targets (minimum) and local targets (desired).

[b] Due to residency time of greenhouse gasses in the atmosphere, early greenhouse gas reduction is generally more beneficial for mitigation of the most severe impacts of climate change.

Source: City of Davis, 2010.

Implementation of the project would result in short-term construction and long-term operational greenhouse gas emissions.

Construction Greenhouse Gas Emissions Construction activities, such as site preparation, site grading, on-site heavy-duty construction vehicles, equipment hauling materials to and from the site, and motor vehicles transporting the construction crew would produce combustion emissions from various sources. During construction of the project, greenhouse gases would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically uses fossil-based fuels to operate. The combustion of fossil-based fuels creates greenhouse gases such as CO_2, CH_4, and N_2O. Furthermore, CH_4 is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

Construction activities would generate greenhouse gas emissions during construction work on-site as well as from the transportation of material between the construction site and staging areas. Based on the results of the CalEEMod analysis, the project would generate approximately 341 tons of CO_2e emissions. These potential impacts would be limited to duration of construction activities and greenhouse gas generation would halt once the project is completed. Therefore, construction emissions would be less than significant.

Operational Greenhouse Gas Emissions

Long-term operation of the proposed project would generate greenhouse gas emissions from mobile sources and indirect emissions from sources associated with energy consumption. Mobile-source emissions of greenhouse gases would include project-generated vehicle trips associated with future guests of the hotel as well as hotel employee trips. Emissions would also be generated at off-site utility providers as a result of demand for electricity generated by the proposed project.

The project would include energy reduction measures, including Energy-Star appliances in guest rooms; high efficiency clothes washers; high efficiency HVAC common areas; variable speed pool pumps; low solar heat gain coefficient storefront glass; 70 percent solar thermal serving laundry; 50 percent solar thermal serving guest rooms; high efficiency kitchen equipment; and photovoltaic solar panels. These measures would greatly reduce the energy consumption and subsequent greenhouse gas emissions associated with the project.

Table 4 shows the calculated greenhouse gas emissions for the proposed project. Mobile source emissions are the largest source of greenhouse gas emissions at approximately 69 percent of the total. Energy use is the next largest category at approximately 27 percent of CO_2e emissions. Waste and water source emissions are approximately 3 percent and 1 percent, respectively.

Table 4: Greenhouse Gas Emissions (Metric Tons Per Year)

Emissions Source Category	Operational Emissions				
	CO_2	CH_4	N_2O	CO_2e	Percent of Total
Area	0.0	0.0	0.0	0.0	0
Energy	256.0	0.0	0.0	257.8	27
Mobile	653.2	0.02	0.0	653.7	69
Waste	13.3	0.8	0.0	29.9	3
Water	0.9	0.0	0.0	5.5	1
Total Annual Emissions				**946.9**	**100**

Note: Column totals may vary slightly due to independent rounding of input data.

Source: LSA Associates, Inc., 2016.

The YSAQMD has not adopted CEQA thresholds of significance for greenhouse gas emissions. The proposed hotel building would comply with the new CalGreen building standards which are more stringent than the older California Title 24 building code, additionally; the project would implement energy saving measures to reduce energy consumption, including the installation of solar panels.

Stationary emitters of greenhouse gas emissions are required to report greenhouse gas emissions of 25,000 metric tons per year CO_2e or above, and several air districts in California (e.g., Bay Area Air Quality Management District, South Coast Air Quality Management District) have adopted a CEQA significance threshold of 10,000 metric tons of CO_2e per year for stationary sources. The BAAQMD also adopted a threshold of 1,100 metric tons per year CO_2e for development projects. Although the project is not a stationary source of greenhouse gas emissions, but primarily a mobile source, it is still useful to compare the project estimated emissions to these greenhouse gas emission thresholds to provide context for the magnitude of emissions. The project estimated emissions of 946.9 metric tons per year are substantially lower than the 10,000 metric tons per year threshold adopted by other air districts in California, and is also lower than the 1,100 metric tons threshold established by the BAAQMD. Therefore project estimated emissions of greenhouse gases would not be considered substantial.

Additionally, because the proposed project's net increase in operational greenhouse gases would not be substantial with respect to mass emission thresholds that have been recommended by other air districts for analyzing stationary sources, and because the proposed project would have increased energy efficiency over standard building methods, the project would be consistent with the goals mandated by AB 32. Greenhouse gas emissions associated with the proposed project would not be cumulatively considerable. Therefore this would be a less-than-significant impact.

Consistency with Plans

As discussed above, the project would not generate substantial emissions. Additionally, the proposed project would include energy reducing measures that are consistent with the D-CAAP. The project would be located near a bike trail and would provide 25 bicycles for hotel guests to use. Water reduction measures include low flow faucets and shower heads to be installed in the guest rooms. Therefore, the sustainability measures included in the proposed project would be consistent with the D-CAAP and would not conflict with the reduction goals established by AB 32. As a result, the project would not conflict with plans adopted for the purpose of reducing greenhouse gas emissions.

Davis Hyatt House

Yolo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	114.00	Space	0.30	12,998.00	0
Hotel	120.00	Room	1.80	76,460.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	6.8	**Precipitation Freq (Days)**	54
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per CO2 intensity factor PG&E April 2015

Land Use - Per project plans 11/11/15

Vehicle Trips - Vehicle Trips - Trip rates per TIA (5% trip reduction off 7.27 trip rate = 6.91)

Energy Use - project plans

Area Mitigation -

Energy Mitigation - 100% LED lighting controls, PV system per Energy Analysis Results

Water Mitigation - per energy analysis CalGreen standards

Road Dust - project access to the site would be provided by paved roads.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	45,600.00	12,998.00
tblLandUse	LandUseSquareFeet	174,240.00	76,460.00
tblLandUse	LotAcreage	1.03	0.30
tblLandUse	LotAcreage	4.00	1.80
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	94	100
tblVehicleTrips	ST_TR	8.19	6.91
tblVehicleTrips	SU_TR	5.95	6.91
tblVehicleTrips	WD_TR	8.17	6.91

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	0.5011	3.1487	2.5613	3.9800e-003	4.5728	0.1913	4.7641	0.4720	0.1823	0.6543	0.0000		337.9320	0.0644	0.0000	339.2842
2018	0.4823	9.1500e-003	9.5900e-003	2.0000e-005	0.0295	6.8000e-004	0.0302	2.9900e-003	6.8000e-004	3.6700e-003	0.0000		1.3844	1.2000e-004	0.0000	1.3869
Total	**0.9835**	**3.1578**	**2.5709**	**4.0000e-003**	**4.6023**	**0.1920**	**4.7943**	**0.4750**	**0.1830**	**0.6579**	**0.0000**		**339.3164**	**0.0645**	**0.0000**	**340.6712**

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	0.5011	3.1487	2.5613	3.9800e-003	0.0657	0.1913	0.2571	0.0223	0.1823	0.2046	0.0000		337.9316	0.0644	0.0000	339.2839
2018	0.4823	9.1500e-003	9.5900e-003	2.0000e-005	2.7000e-004	6.8000e-004	9.5000e-004	7.0000e-005	6.8000e-004	7.5000e-004	0.0000		1.3844	1.2000e-004	0.0000	1.3869
Total	**0.9835**	**3.1578**	**2.5709**	**4.0000e-003**	**0.0660**	**0.1920**	**0.2580**	**0.0223**	**0.1830**	**0.2053**	**0.0000**		**339.3161**	**0.0645**	**0.0000**	**340.6708**

	ROG	NOx	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**	**98.57**	**0.00**	**94.62**	**95.30**	**0.00**	**68.80**	**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	0.4030	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000		4.1800e-003	1.0000e-005	0.0000	4.4200e-003
Energy	0.0191	0.1738	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000		275.6310	0.0123	5.2600e-003	277.5182
Mobile	0.4298	0.9872	4.1210	9.1500e-003	0.5932	0.0145	0.6077	0.1595	0.0133	0.1729	0.0000		653.2457	0.0216	0.0000	653.7002
Waste						0.0000	0.0000		0.0000	0.0000	13.3365		13.3365	0.7882	0.0000	29.8880
Water						0.0000	0.0000		0.0000	0.0000	0.9657		3.2881	0.0994	2.3900e-003	6.1169
Total	**0.8519**	**1.1611**	**4.2692**	**0.0102**	**0.5932**	**0.0277**	**0.6209**	**0.1595**	**0.0266**	**0.1861**	**14.3022**		**945.5054**	**0.9215**	**7.6500e-003**	**967.2276**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4030	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000		4.1800e-003	1.0000e-005	0.0000	4.4200e-003
Energy	0.0191	0.1738	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000		256.0339	0.0103	4.8500e-003	257.7543
Mobile	0.4298	0.9872	4.1210	9.1500e-003	0.5932	0.0145	0.6077	0.1595	0.0133	0.1729	0.0000		653.2457	0.0216	0.0000	653.7002
Waste						0.0000	0.0000		0.0000	0.0000	13.3365		13.3365	0.7882	0.0000	29.8880
Water						0.0000	0.0000		0.0000	0.0000	0.8676		2.9698	0.0893	2.1400e-003	5.5100
Total	**0.8519**	**1.1611**	**4.2692**	**0.0102**	**0.5932**	**0.0277**	**0.6209**	**0.1595**	**0.0266**	**0.1861**	**14.2041**		**925.5901**	**0.9094**	**6.9900e-003**	**946.8568**

	ROG	NOx	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**	**0.69**	**0.00**	**2.11**	**1.31**	**8.63**	**2.11**

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	2/1/2017	5	3	
3	Grading	Grading	2/2/2017	2/9/2017	5	6	
4	Building Construction	Building Construction	2/10/2017	12/14/2017	5	220	
5	Paving	Paving	12/15/2017	12/28/2017	5	10	
6	Architectural Coating	Architectural Coating	12/29/2017	1/11/2018	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 115,275; Non-Residential Outdoor: 38,425 (Architectural Coating – sqft)

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	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	38.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					
Off-Road	0.0272	0.2659	0.2087	2.4000e-004		0.0161	0.0161		0.0150	0.0150	0.0000		22.2938	5.6600e-003	0.0000	22.4126
Total	**0.0272**	**0.2659**	**0.2087**	**2.4000e-004**		**0.0161**	**0.0161**		**0.0150**	**0.0150**	**0.0000**		**22.2938**	**5.6600e-003**	**0.0000**	**22.4126**

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	5.2000e-004	5.0500e-003	1.0000e-005	0.1066	1.0000e-005	0.1066	0.0108	1.0000e-005	0.0108	0.0000		0.8833	4.0000e-005	0.0000	0.8842
Total	**4.0000e-004**	**5.2000e-004**	**5.0500e-003**	**1.0000e-005**	**0.1066**	**1.0000e-005**	**0.1066**	**0.0108**	**1.0000e-005**	**0.0108**	**0.0000**		**0.8833**	**4.0000e-005**	**0.0000**	**0.8842**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0272	0.2659	0.2087	2.4000e-004		0.0161	0.0161		0.0150	0.0150	0.0000		22.2938	5.6600e-003	0.0000	22.4125
Total	**0.0272**	**0.2659**	**0.2087**	**2.4000e-004**		**0.0161**	**0.0161**		**0.0150**	**0.0150**	**0.0000**		**22.2938**	**5.6600e-003**	**0.0000**	**22.4125**

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	5.2000e-004	5.0500e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000		0.8833	4.0000e-005	0.0000	0.8842
Total	**4.0000e-004**	**5.2000e-004**	**5.0500e-003**	**1.0000e-005**	**9.8000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**		**0.8833**	**4.0000e-005**	**0.0000**	**0.8842**

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	3.7900e-003	0.0429	0.0257	4.0000e-005		2.1000e-003	2.1000e-003		1.9300e-003	1.9300e-003	0.0000		3.3195	1.0200e-003	0.0000	3.3409
Total	**3.7900e-003**	**0.0429**	**0.0257**	**4.0000e-005**	**2.3900e-003**	**2.1000e-003**	**4.4900e-003**	**2.6000e-004**	**1.9300e-003**	**2.1900e-003**	**0.0000**		**3.3195**	**1.0200e-003**	**0.0000**	**3.3409**

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	4.7000e-004	0.0000	9.8400e-003	0.0000	9.8400e-003	1.0000e-003	0.0000	1.0000e-003	0.0000		0.0815	0.0000	0.0000	0.0816
Total	**4.0000e-005**	**5.0000e-005**	**4.7000e-004**	**0.0000**	**9.8400e-003**	**0.0000**	**9.8400e-003**	**1.0000e-003**	**0.0000**	**1.0000e-003**	**0.0000**		**0.0815**	**0.0000**	**0.0000**	**0.0816**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	3.7900e-003	0.0429	0.0257	4.0000e-005		2.1000e-003	2.1000e-003		1.9300e-003	1.9300e-003	0.0000		3.3195	1.0200e-003	0.0000	3.3409
Total	**3.7900e-003**	**0.0429**	**0.0257**	**4.0000e-005**	**2.3900e-003**	**2.1000e-003**	**4.4900e-003**	**2.6000e-004**	**1.9300e-003**	**2.1900e-003**	**0.0000**		**3.3195**	**1.0200e-003**	**0.0000**	**3.3409**

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	5.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000		0.0815	0.0000	0.0000	0.0816
Total	**4.0000e-005**	**5.0000e-005**	**4.7000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**		**0.0815**	**0.0000**	**0.0000**	**0.0816**

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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	8.0900e-003	0.0845	0.0569	6.0000e-005		4.6700e-003	4.6700e-003		4.2900e-003	4.2900e-003	0.0000		5.7277	1.7500e-003	0.0000	5.7646
Total	**8.0900e-003**	**0.0845**	**0.0569**	**6.0000e-005**	**0.0197**	**4.6700e-003**	**0.0243**	**0.0101**	**4.2900e-003**	**0.0144**	**0.0000**		**5.7277**	**1.7500e-003**	**0.0000**	**5.7646**

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	1.2000e-004	1.1600e-003	0.0000	0.0246	0.0000	0.0246	2.4900e-003	0.0000	2.4900e-003	0.0000		0.2038	1.0000e-005	0.0000	0.2040
Total	**9.0000e-005**	**1.2000e-004**	**1.1600e-003**	**0.0000**	**0.0246**	**0.0000**	**0.0246**	**2.4900e-003**	**0.0000**	**2.4900e-003**	**0.0000**		**0.2038**	**1.0000e-005**	**0.0000**	**0.2040**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	8.0900e-003	0.0845	0.0569	6.0000e-005		4.6700e-003	4.6700e-003		4.2900e-003	4.2900e-003	0.0000		5.7277	1.7500e-003	0.0000	5.7646
Total	**8.0900e-003**	**0.0845**	**0.0569**	**6.0000e-005**	**0.0197**	**4.6700e-003**	**0.0243**	**0.0101**	**4.2900e-003**	**0.0144**	**0.0000**		**5.7277**	**1.7500e-003**	**0.0000**	**5.7646**

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	1.2000e-004	1.1600e-003	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000		0.2038	1.0000e-005	0.0000	0.2040
Total	**9.0000e-005**	**1.2000e-004**	**1.1600e-003**	**0.0000**	**2.3000e-004**	**0.0000**	**2.3000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**		**0.2038**	**1.0000e-005**	**0.0000**	**0.2040**

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	0.3660	2.5144	1.7874	2.7400e-003		0.1608	0.1608		0.1540	0.1540	0.0000		232.9955	0.0518	0.0000	234.0829
Total	**0.3660**	**2.5144**	**1.7874**	**2.7400e-003**		**0.1608**	**0.1608**		**0.1540**	**0.1540**	**0.0000**		**232.9955**	**0.0518**	**0.0000**	**234.0829**

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.1400	0.2493	4.0000e-004	0.9166	2.2200e-003	0.9188	0.0934	2.0400e-003	0.0955	0.0000		35.2993	2.7000e-004	0.0000	35.3049
Worker	0.0128	0.0166	0.1623	3.9000e-004	3.4283	2.4000e-004	3.4285	0.3473	2.2000e-004	0.3476	0.0000		28.4007	1.3900e-003	0.0000	28.4299
Total	**0.0331**	**0.1566**	**0.4116**	**7.9000e-004**	**4.3449**	**2.4600e-003**	**4.3473**	**0.4408**	**2.2600e-003**	**0.4430**	**0.0000**		**63.6999**	**1.6600e-003**	**0.0000**	**63.7348**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3660	2.5144	1.7874	2.7400e-003		0.1608	0.1608		0.1540	0.1540	0.0000		232.9952	0.0518	0.0000	234.0827
Total	**0.3660**	**2.5144**	**1.7874**	**2.7400e-003**		**0.1608**	**0.1608**		**0.1540**	**0.1540**	**0.0000**		**232.9952**	**0.0518**	**0.0000**	**234.0827**

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.1400	0.2493	4.0000e-004	0.0103	2.2200e-003	0.0125	2.9800e-003	2.0400e-003	5.0200e-003	0.0000		35.2993	2.7000e-004	0.0000	35.3049
Worker	0.0128	0.0166	0.1623	3.9000e-004	0.0315	2.4000e-004	0.0318	8.4100e-003	2.2000e-004	8.6300e-003	0.0000		28.4007	1.3900e-003	0.0000	28.4299
Total	**0.0331**	**0.1566**	**0.4116**	**7.9000e-004**	**0.0418**	**2.4600e-003**	**0.0443**	**0.0114**	**2.2600e-003**	**0.0137**	**0.0000**		**63.6999**	**1.6600e-003**	**0.0000**	**63.7348**

3.6 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2000e-003	0.0823	0.0603	9.0000e-005		5.1100e-003	5.1100e-003		4.7100e-003	4.7100e-003	0.0000		8.0625	2.4200e-003	0.0000	8.1134
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Total	**8.5900e-003**	**0.0823**	**0.0603**	**9.0000e-005**		**5.1100e-003**	**5.1100e-003**		**4.7100e-003**	**4.7100e-003**	**0.0000**		**8.0625**	**2.4200e-003**	**0.0000**	**8.1134**

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	3.0000e-004	2.9100e-003	1.0000e-005	0.0615	0.0000	0.0615	6.2300e-003	0.0000	6.2400e-003	0.0000		0.5096	2.0000e-005	0.0000	0.5101
Total	**2.3000e-004**	**3.0000e-004**	**2.9100e-003**	**1.0000e-005**	**0.0615**	**0.0000**	**0.0615**	**6.2300e-003**	**0.0000**	**6.2400e-003**	**0.0000**		**0.5096**	**2.0000e-005**	**0.0000**	**0.5101**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.2000e-003	0.0823	0.0603	9.0000e-005		5.1100e-003	5.1100e-003		4.7100e-003	4.7100e-003	0.0000		8.0625	2.4200e-003	0.0000	8.1134
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Total	**8.5900e-003**	**0.0823**	**0.0603**	**9.0000e-005**		**5.1100e-003**	**5.1100e-003**		**4.7100e-003**	**4.7100e-003**	**0.0000**		**8.0625**	**2.4200e-003**	**0.0000**	**8.1134**

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	3.0000e-004	2.9100e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000		0.5096	2.0000e-005	0.0000	0.5101
Total	**2.3000e-004**	**3.0000e-004**	**2.9100e-003**	**1.0000e-005**	**5.7000e-004**	**0.0000**	**5.7000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**		**0.5096**	**2.0000e-005**	**0.0000**	**0.5101**

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0534					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.0900e-003	9.3000e-004	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000		0.1277	1.0000e-005	0.0000	0.1280
Total	**0.0536**	**1.0900e-003**	**9.3000e-004**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**		**0.1277**	**1.0000e-005**	**0.0000**	**0.1280**

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	2.0000e-005	1.6000e-004	0.0000	3.2800e-003	0.0000	3.2800e-003	3.3000e-004	0.0000	3.3000e-004	0.0000		0.0272	0.0000	0.0000	0.0272
Total	**1.0000e-005**	**2.0000e-005**	**1.6000e-004**	**0.0000**	**3.2800e-003**	**0.0000**	**3.2800e-003**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**0.0000**		**0.0272**	**0.0000**	**0.0000**	**0.0272**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0534					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-004	1.0900e-003	9.3000e-004	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000		0.1277	1.0000e-005	0.0000	0.1280
Total	**0.0536**	**1.0900e-003**	**9.3000e-004**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**		**0.1277**	**1.0000e-005**	**0.0000**	**0.1280**

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	2.0000e-005	1.6000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000		0.0272	0.0000	0.0000	0.0272
Total	**1.0000e-005**	**2.0000e-005**	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0272**	**0.0000**	**0.0000**	**0.0272**

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	0.4809					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	1.3400e-003	9.0300e-003	8.3400e-003	1.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000		1.1490	1.1000e-004	0.0000	1.1513
Total	**0.4822**	**9.0300e-003**	**8.3400e-003**	**1.0000e-005**		**6.8000e-004**	**6.8000e-004**		**6.8000e-004**	**6.8000e-004**	**0.0000**		**1.1490**	**1.1000e-004**	**0.0000**	**1.1513**

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	1.3000e-004	1.2500e-003	0.0000	0.0295	0.0000	0.0295	2.9900e-003	0.0000	2.9900e-003	0.0000		0.2354	1.0000e-005	0.0000	0.2357
Total	**1.0000e-004**	**1.3000e-004**	**1.2500e-003**	**0.0000**	**0.0295**	**0.0000**	**0.0295**	**2.9900e-003**	**0.0000**	**2.9900e-003**	**0.0000**		**0.2354**	**1.0000e-005**	**0.0000**	**0.2357**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4809					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	1.3400e-003	9.0300e-003	8.3400e-003	1.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000		1.1490	1.1000e-004	0.0000	1.1513
Total	**0.4822**	**9.0300e-003**	**8.3400e-003**	**1.0000e-005**		**6.8000e-004**	**6.8000e-004**		**6.8000e-004**	**6.8000e-004**	**0.0000**		**1.1490**	**1.1000e-004**	**0.0000**	**1.1513**

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	1.3000e-004	1.2500e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000		0.2354	1.0000e-005	0.0000	0.2357
Total	**1.0000e-004**	**1.3000e-004**	**1.2500e-003**	**0.0000**	**2.7000e-004**	**0.0000**	**2.7000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**		**0.2354**	**1.0000e-005**	**0.0000**	**0.2357**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4298	0.9872	4.1210	9.1500e-003	0.5932	0.0145	0.6077	0.1595	0.0133	0.1729	0.0000		653.2457	0.0216	0.0000	653.7002
Unmitigated	0.4298	0.9872	4.1210	9.1500e-003	0.5932	0.0145	0.6077	0.1595	0.0133	0.1729	0.0000		653.2457	0.0216	0.0000	653.7002

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	829.20	829.20	829.20	1,575,423	1,575,423
Parking Lot	0.00	0.00	0.00		
Total	829.20	829.20	829.20	1,575,423	1,575,423

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
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.481024	0.067566	0.151854	0.147984	0.059070	0.006635	0.036879	0.035846	0.000913	0.001880	0.007644	0.000647	0.002057

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000		66.7944	6.6800e-003	1.3800e-003	67.3631
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000		86.3915	8.6400e-003	1.7900e-003	87.1270
NaturalGas Mitigated	0.0191	0.1738	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000		189.2395	3.6300e-003	3.4700e-003	190.3912
NaturalGas Unmitigated	0.0191	0.1738	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000		189.2395	3.6300e-003	3.4700e-003	190.3912

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
Hotel	3.54621e+006	0.0191	0.1738	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000		189.2395	3.6300e-003	3.4700e-003	190.3912
Total		**0.0191**	**0.1738**	**0.1460**	**1.0400e-003**		**0.0132**	**0.0132**		**0.0132**	**0.0132**	**0.0000**		**189.2395**	**3.6300e-003**	**3.4700e-003**	**190.3912**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	3.54621e+006	0.0191	0.1738	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000		189.2395	3.6300e-003	3.4700e-003	190.3912
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		**0.0191**	**0.1738**	**0.1460**	**1.0400e-003**		**0.0132**	**0.0132**		**0.0132**	**0.0132**	**0.0000**		**189.2395**	**3.6300e-003**	**3.4700e-003**	**190.3912**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	645322	84.8869	8.4900e-003	1.7600e-003	85.6096
Parking Lot	11438.2	1.5046	1.5000e-004	3.0000e-005	1.5174
Total		**86.3915**	**8.6400e-003**	**1.7900e-003**	**87.1270**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	535274	70.4109	7.0400e-003	1.4600e-003	71.0104
Parking Lot	-27493.2	-3.6165	-0.0004	-0.0001	-3.6473
Total		**66.7944**	**6.6800e-003**	**1.3900e-003**	**67.3631**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4030	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000		4.1800e-003	1.0000e-005	0.0000	4.4200e-003
Unmitigated	0.4030	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000		4.1800e-003	1.0000e-005	0.0000	4.4200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0534					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3494					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000		4.1800e-003	1.0000e-005	0.0000	4.4200e-003
Total	**0.4030**	**2.0000e-005**	**2.1600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**		**4.1800e-003**	**1.0000e-005**	**0.0000**	**4.4200e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0534					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3494					0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000		4.1800e-003	1.0000e-005	0.0000	4.4200e-003
Total	**0.4030**	**2.0000e-005**	**2.1600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**		**4.1800e-003**	**1.0000e-005**	**0.0000**	**4.4200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.9698	0.0893	2.1400e-003	5.5100
Unmitigated	3.2881	0.0994	2.3900e-003	6.1169

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.04401 / 0.338224	3.2881	0.0994	2.3900e-003	6.1169
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**3.2881**	**0.0994**	**2.3900e-003**	**6.1169**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	2.73474 / 0.338224	2.9698	0.0893	2.1400e-003	5.5100
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**2.9698**	**0.0893**	**2.1400e-003**	**5.5100**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.3365	0.7882	0.0000	29.8880
Unmitigated	13.3365	0.7882	0.0000	29.8880

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	65.7	13.3365	0.7882	0.0000	29.8880
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**13.3365**	**0.7882**	**0.0000**	**29.8880**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	65.7	13.3365	0.7882	0.0000	29.8880
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**13.3365**	**0.7882**	**0.0000**	**29.8880**

9.0 Operational Offroad

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

10.0 Vegetation

Davis Hyatt House

Yolo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	114.00	Space	0.30	12,998.00	0
Hotel	120.00	Room	1.80	76,460.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	6.8	**Precipitation Freq (Days)**	54
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per CO2 intensity factor PG&E April 2015

Land Use - Per project plans 11/11/15

Vehicle Trips - Vehicle Trips - Trip rates per TIA (5% trip reduction off 7.27 trip rate = 6.91)

Energy Use - project plans

Area Mitigation -

Energy Mitigation - 100% LED lighting controls, PV system per Energy Analysis Results

Water Mitigation - per energy analysis CalGreen standards

Road Dust - project access to the site would be provided by paved roads.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	45,600.00	12,998.00
tblLandUse	LandUseSquareFeet	174,240.00	76,460.00
tblLandUse	LotAcreage	1.03	0.30
tblLandUse	LotAcreage	4.00	1.80
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	94	100
tblVehicleTrips	ST_TR	8.19	6.91
tblVehicleTrips	SU_TR	5.95	6.91
tblVehicleTrips	WD_TR	8.17	6.91

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	107.2213	28.6515	21.4482	0.0324	46.3029	1.6069	47.7872	4.6875	1.5029	6.1077	0.0000		3,003.2390	0.7504	0.0000	3,018.9968
2018	107.1847	2.0314	2.1725	3.8000e-003	7.6920	0.1510	7.8430	0.7779	0.1510	0.9289	0.0000		344.9877	0.0294	0.0000	345.6059
Total	**214.4061**	**30.6829**	**23.6207**	**0.0362**	**53.9950**	**1.7579**	**55.6303**	**5.4654**	**1.6539**	**7.0366**	**0.0000**		**3,348.2266**	**0.7798**	**0.0000**	**3,364.6027**

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	107.2213	28.6515	21.4482	0.0324	6.6302	1.6069	8.1858	3.3882	1.5029	4.8194	0.0000		3,003.2390	0.7504	0.0000	3,018.9968
2018	107.1847	2.0314	2.1725	3.8000e-003	0.0623	0.1510	0.2133	0.0166	0.1510	0.1676	0.0000		344.9877	0.0294	0.0000	345.6059
Total	**214.4061**	**30.6829**	**23.6207**	**0.0362**	**6.6925**	**1.7579**	**8.3991**	**3.4048**	**1.6539**	**4.9869**	**0.0000**		**3,348.2266**	**0.7798**	**0.0000**	**3,364.6027**

	ROG	NOx	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**	**87.61**	**0.00**	**84.90**	**37.70**	**0.00**	**29.13**	**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	2.2094	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Energy	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
Mobile	2.5998	5.0934	21.6027	0.0538	3.3651	0.0793	3.4444	0.9025	0.0731	0.9756			4,213.9363	0.1311		4,216.6896
Total	**4.9140**	**6.0461**	**22.4269**	**0.0596**	**3.3651**	**0.1518**	**3.5169**	**0.9025**	**0.1456**	**1.0481**			**5,357.0060**	**0.1532**	**0.0210**	**5,366.7183**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2094	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Energy	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
Mobile	2.5998	5.0934	21.6027	0.0538	3.3651	0.0793	3.4444	0.9025	0.0731	0.9756			4,213.9363	0.1311		4,216.6896
Total	**4.9140**	**6.0461**	**22.4269**	**0.0596**	**3.3651**	**0.1518**	**3.5169**	**0.9025**	**0.1456**	**1.0481**			**5,357.0060**	**0.1532**	**0.0210**	**5,366.7183**

	ROG	NOx	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	2/1/2017	5	3	
3	Grading	Grading	2/2/2017	2/9/2017	5	6	
4	Building Construction	Building Construction	2/10/2017	12/14/2017	5	220	
5	Paving	Paving	12/15/2017	12/28/2017	5	10	
6	Architectural Coating	Architectural Coating	12/29/2017	1/11/2018	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 115,275; Non-Residential Outdoor: 38,425 (Architectural Coating – sqft)

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	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	38.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022			2,457.4682	0.6235		2,470.5620
Total	**2.7216**	**26.5855**	**20.8712**	**0.0245**		**1.6062**	**1.6062**		**1.5022**	**1.5022**			**2,457.4682**	**0.6235**		**2,470.5620**

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0473	0.0463	0.5770	1.3500e-003	12.4996	7.3000e-004	12.5003	1.2641	6.8000e-004	1.2647			107.2580	4.7700e-003		107.3580
Total	**0.0473**	**0.0463**	**0.5770**	**1.3500e-003**	**12.4996**	**7.3000e-004**	**12.5003**	**1.2641**	**6.8000e-004**	**1.2647**			**107.2580**	**4.7700e-003**		**107.3580**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022	0.0000		2,457.4682	0.6235		2,470.5620
Total	**2.7216**	**26.5855**	**20.8712**	**0.0245**		**1.6062**	**1.6062**		**1.5022**	**1.5022**	**0.0000**		**2,457.4682**	**0.6235**		**2,470.5620**

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0473	0.0463	0.5770	1.3500e-003	0.1012	7.3000e-004	0.1020	0.0270	6.8000e-004	0.0276			107.2580	4.7700e-003		107.3580
Total	**0.0473**	**0.0463**	**0.5770**	**1.3500e-003**	**0.1012**	**7.3000e-004**	**0.1020**	**0.0270**	**6.8000e-004**	**0.0276**			**107.2580**	**4.7700e-003**		**107.3580**

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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.5289	28.6230	17.1310	0.0238		1.3967	1.3967		1.2850	1.2850			2,439.4360	0.7474		2,455.1322
Total	**2.5289**	**28.6230**	**17.1310**	**0.0238**	**1.5908**	**1.3967**	**2.9875**	**0.1718**	**1.2850**	**1.4567**			**2,439.4360**	**0.7474**		**2,455.1322**

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0291	0.0285	0.3551	8.3000e-004	7.6920	4.5000e-004	7.6925	0.7779	4.2000e-004	0.7783			66.0049	2.9300e-003		66.0665
Total	**0.0291**	**0.0285**	**0.3551**	**8.3000e-004**	**7.6920**	**4.5000e-004**	**7.6925**	**0.7779**	**4.2000e-004**	**0.7783**			**66.0049**	**2.9300e-003**		**66.0665**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.5289	28.6230	17.1310	0.0238		1.3967	1.3967		1.2850	1.2850	0.0000		2,439.4360	0.7474		2,455.1322
Total	**2.5289**	**28.6230**	**17.1310**	**0.0238**	**1.5908**	**1.3967**	**2.9875**	**0.1718**	**1.2850**	**1.4567**	**0.0000**		**2,439.4360**	**0.7474**		**2,455.1322**

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0291	0.0285	0.3551	8.3000e-004	0.0623	4.5000e-004	0.0627	0.0166	4.2000e-004	0.0170			66.0049	2.9300e-003		66.0665
Total	**0.0291**	**0.0285**	**0.3551**	**8.3000e-004**	**0.0623**	**4.5000e-004**	**0.0627**	**0.0166**	**4.2000e-004**	**0.0170**			**66.0049**	**2.9300e-003**		**66.0665**

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306			2,104.5737	0.6448		2,118.1153
Total	**2.6973**	**28.1608**	**18.9679**	**0.0206**	**6.5523**	**1.5550**	**8.1074**	**3.3675**	**1.4306**	**4.7981**			**2,104.5737**	**0.6448**		**2,118.1153**

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0364	0.0356	0.4438	1.0400e-003	9.6151	5.6000e-004	9.6156	0.9724	5.2000e-004	0.9729			82.5061	3.6700e-003		82.5831
Total	**0.0364**	**0.0356**	**0.4438**	**1.0400e-003**	**9.6151**	**5.6000e-004**	**9.6156**	**0.9724**	**5.2000e-004**	**0.9729**			**82.5061**	**3.6700e-003**		**82.5831**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306	0.0000		2,104.5737	0.6448		2,118.1153
Total	**2.6973**	**28.1608**	**18.9679**	**0.0206**	**6.5523**	**1.5550**	**8.1074**	**3.3675**	**1.4306**	**4.7981**	**0.0000**		**2,104.5737**	**0.6448**		**2,118.1153**

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0364	0.0356	0.4438	1.0400e-003	0.0779	5.6000e-004	0.0784	0.0207	5.2000e-004	0.0213			82.5061	3.6700e-003		82.5831
Total	**0.0364**	**0.0356**	**0.4438**	**1.0400e-003**	**0.0779**	**5.6000e-004**	**0.0784**	**0.0207**	**5.2000e-004**	**0.0213**			**82.5061**	**3.6700e-003**		**82.5831**

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	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998			2,334.8503	0.5189		2,345.7479
Total	**3.3275**	**22.8585**	**16.2492**	**0.0249**		**1.4621**	**1.4621**		**1.3998**	**1.3998**			**2,334.8503**	**0.5189**		**2,345.7479**

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.1659	1.2111	1.7600	3.5900e-003	9.7657	0.0201	9.7858	0.9925	0.0185	1.0110			354.8654	2.6800e-003		354.9216
Worker	0.1383	0.1353	1.6866	3.9500e-003	36.5372	2.1500e-003	36.5394	3.6950	1.9800e-003	3.6969			313.5233	0.0139		313.8158
Total	**0.3041**	**1.3464**	**3.4466**	**7.5400e-003**	**46.3029**	**0.0222**	**46.3251**	**4.6875**	**0.0204**	**4.7079**			**668.3886**	**0.0166**		**668.7374**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998	0.0000		2,334.8503	0.5189		2,345.7479
Total	**3.3275**	**22.8585**	**16.2492**	**0.0249**		**1.4621**	**1.4621**		**1.3998**	**1.3998**	**0.0000**		**2,334.8503**	**0.5189**		**2,345.7479**

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.1659	1.2111	1.7600	3.5900e-003	0.0961	0.0201	0.1161	0.0277	0.0185	0.0461			354.8654	2.6800e-003		354.9216
Worker	0.1383	0.1353	1.6866	3.9500e-003	0.2959	2.1500e-003	0.2980	0.0788	1.9800e-003	0.0808			313.5233	0.0139		313.8158
Total	**0.3041**	**1.3464**	**3.4466**	**7.5400e-003**	**0.3919**	**0.0222**	**0.4142**	**0.1065**	**0.0204**	**0.1269**			**668.3886**	**0.0166**		**668.7374**

3.6 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423			1,777.4745	0.5344		1,788.6966
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7188**	**16.4619**	**12.0566**	**0.0176**		**1.0230**	**1.0230**		**0.9423**	**0.9423**			**1,777.4745**	**0.5344**		**1,788.6966**

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0546	0.0534	0.6658	1.5600e-003	14.4226	8.5000e-004	14.4234	1.4585	7.8000e-004	1.4593			123.7592	5.5000e-003		123.8747
Total	**0.0546**	**0.0534**	**0.6658**	**1.5600e-003**	**14.4226**	**8.5000e-004**	**14.4234**	**1.4585**	**7.8000e-004**	**1.4593**			**123.7592**	**5.5000e-003**		**123.8747**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423	0.0000		1,777.4745	0.5344		1,788.6966
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7188**	**16.4619**	**12.0566**	**0.0176**		**1.0230**	**1.0230**		**0.9423**	**0.9423**	**0.0000**		**1,777.4745**	**0.5344**		**1,788.6966**

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0546	0.0534	0.6658	1.5600e-003	0.1168	8.5000e-004	0.1176	0.0311	7.8000e-004	0.0319			123.7592	5.5000e-003		123.8747
Total	**0.0546**	**0.0534**	**0.6658**	**1.5600e-003**	**0.1168**	**8.5000e-004**	**0.1176**	**0.0311**	**7.8000e-004**	**0.0319**			**123.7592**	**5.5000e-003**		**123.8747**

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	106.8599					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733			281.4481	0.0297		282.0721
Total	**107.1922**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**			**281.4481**	**0.0297**		**282.0721**

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0291	0.0285	0.3551	8.3000e-004	7.6920	4.5000e-004	7.6925	0.7779	4.2000e-004	0.7783			66.0049	2.9300e-003		66.0665
Total	**0.0291**	**0.0285**	**0.3551**	**8.3000e-004**	**7.6920**	**4.5000e-004**	**7.6925**	**0.7779**	**4.2000e-004**	**0.7783**			**66.0049**	**2.9300e-003**		**66.0665**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	106.8599					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000		281.4481	0.0297		282.0721
Total	**107.1922**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**	**0.0000**		**281.4481**	**0.0297**		**282.0721**

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0291	0.0285	0.3551	8.3000e-004	0.0623	4.5000e-004	0.0627	0.0166	4.2000e-004	0.0170			66.0049	2.9300e-003		66.0665
Total	**0.0291**	**0.0285**	**0.3551**	**8.3000e-004**	**0.0623**	**4.5000e-004**	**0.0627**	**0.0166**	**4.2000e-004**	**0.0170**			**66.0049**	**2.9300e-003**		**66.0665**

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	106.8599					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	0.0267		282.0102
Total	**107.1586**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**			**281.4485**	**0.0267**		**282.0102**

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0262	0.0256	0.3183	8.3000e-004	7.6920	4.4000e-004	7.6925	0.7779	4.1000e-004	0.7783			63.5391	2.7000e-003		63.5958
Total	**0.0262**	**0.0256**	**0.3183**	**8.3000e-004**	**7.6920**	**4.4000e-004**	**7.6925**	**0.7779**	**4.1000e-004**	**0.7783**			**63.5391**	**2.7000e-003**		**63.5958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	106.8599					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	0.0267		282.0102
Total	**107.1586**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**		**281.4485**	**0.0267**		**282.0102**

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0262	0.0256	0.3183	8.3000e-004	0.0623	4.4000e-004	0.0627	0.0166	4.1000e-004	0.0170			63.5391	2.7000e-003		63.5958
Total	**0.0262**	**0.0256**	**0.3183**	**8.3000e-004**	**0.0623**	**4.4000e-004**	**0.0627**	**0.0166**	**4.1000e-004**	**0.0170**			**63.5391**	**2.7000e-003**		**63.5958**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.5998	5.0934	21.6027	0.0538	3.3651	0.0793	3.4444	0.9025	0.0731	0.9756			4,213.9363	0.1311		4,216.6896
Unmitigated	2.5998	5.0934	21.6027	0.0538	3.3651	0.0793	3.4444	0.9025	0.0731	0.9756			4,213.9363	0.1311		4,216.6896

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	829.20	829.20	829.20	1,575,423	1,575,423
Parking Lot	0.00	0.00	0.00		
Total	829.20	829.20	829.20	1,575,423	1,575,423

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
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.481024	0.067566	0.151854	0.147984	0.059070	0.006635	0.036879	0.035846	0.000913	0.001880	0.007644	0.000647	0.002057

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
NaturalGas Unmitigated	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747

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					
Hotel	9715.66	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
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
Total		**0.1048**	**0.9525**	**0.8001**	**5.7200e-003**		**0.0724**	**0.0724**		**0.0724**	**0.0724**			**1,143.0185**	**0.0219**	**0.0210**	**1,149.9747**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	9.71566	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
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
Total		**0.1048**	**0.9525**	**0.8001**	**5.7200e-003**		**0.0724**	**0.0724**		**0.0724**	**0.0724**			**1,143.0185**	**0.0219**	**0.0210**	**1,149.9747**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2094	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Unmitigated	2.2094	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2600e-003	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Total	**2.2094**	**2.2000e-004**	**0.0240**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**			**0.0512**	**1.4000e-004**		**0.0541**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2600e-003	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Total	**2.2094**	**2.2000e-004**	**0.0240**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**			**0.0512**	**1.4000e-004**		**0.0541**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Shower

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

Davis Hyatt House

Yolo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	114.00	Space	0.30	12,998.00	0
Hotel	120.00	Room	1.80	76,460.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	6.8	**Precipitation Freq (Days)**	54
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per CO2 intensity factor PG&E April 2015

Land Use - Per project plans 11/11/15

Vehicle Trips - Vehicle Trips - Trip rates per TIA (5% trip reduction off 7.27 trip rate = 6.91)

Energy Use - project plans

Area Mitigation -

Energy Mitigation - 100% LED lighting controls, PV system per Energy Analysis Results

Water Mitigation - per energy analysis CalGreen standards

Road Dust - project access to the site would be provided by paved roads.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	45,600.00	12,998.00
tblLandUse	LandUseSquareFeet	174,240.00	76,460.00
tblLandUse	LotAcreage	1.03	0.30
tblLandUse	LotAcreage	4.00	1.80
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	94	100
tblVehicleTrips	ST_TR	8.19	6.91
tblVehicleTrips	SU_TR	5.95	6.91
tblVehicleTrips	WD_TR	8.17	6.91

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	107.2177	28.6587	21.3971	0.0320	46.3029	1.6069	47.7875	4.6875	1.5029	6.1080	0.0000		2,963.7541	0.7504	0.0000	2,979.5119
2018	107.1812	2.0378	2.1415	3.7000e-003	7.6920	0.1510	7.8430	0.7779	0.1510	0.9289	0.0000		337.5256	0.0294	0.0000	338.1439
Total	**214.3990**	**30.6965**	**23.5387**	**0.0357**	**53.9950**	**1.7579**	**55.6305**	**5.4654**	**1.6539**	**7.0368**	**0.0000**		**3,301.2797**	**0.7798**	**0.0000**	**3,317.6558**

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	107.2177	28.6587	21.3971	0.0320	6.6302	1.6069	8.1858	3.3882	1.5029	4.8194	0.0000		2,963.7541	0.7504	0.0000	2,979.5119
2018	107.1812	2.0378	2.1415	3.7000e-003	0.0623	0.1510	0.2133	0.0166	0.1510	0.1676	0.0000		337.5256	0.0294	0.0000	338.1439
Total	**214.3990**	**30.6965**	**23.5387**	**0.0357**	**6.6925**	**1.7579**	**8.3991**	**3.4048**	**1.6539**	**4.9869**	**0.0000**		**3,301.2797**	**0.7798**	**0.0000**	**3,317.6558**

	ROG	NOx	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**	**87.61**	**0.00**	**84.90**	**37.70**	**0.00**	**29.13**	**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	2.2094	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Energy	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
Mobile	2.5271	5.6734	27.1429	0.0494	3.3651	0.0800	3.4451	0.9025	0.0737	0.9763			3,887.6488	0.1314		3,890.4087
Total	**4.8414**	**6.6262**	**27.9671**	**0.0552**	**3.3651**	**0.1525**	**3.5176**	**0.9025**	**0.1462**	**1.0488**			**5,030.7184**	**0.1535**	**0.0210**	**5,040.4375**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.2094	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Energy	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
Mobile	2.5271	5.6734	27.1429	0.0494	3.3651	0.0800	3.4451	0.9025	0.0737	0.9763			3,887.6488	0.1314		3,890.4087
Total	**4.8414**	**6.6262**	**27.9671**	**0.0552**	**3.3651**	**0.1525**	**3.5176**	**0.9025**	**0.1462**	**1.0488**			**5,030.7184**	**0.1535**	**0.0210**	**5,040.4375**

	ROG	NOx	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	2/1/2017	5	3	
3	Grading	Grading	2/2/2017	2/9/2017	5	6	
4	Building Construction	Building Construction	2/10/2017	12/14/2017	5	220	
5	Paving	Paving	12/15/2017	12/28/2017	5	10	
6	Architectural Coating	Architectural Coating	12/29/2017	1/11/2018	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 115,275; Non-Residential Outdoor: 38,425 (Architectural Coating – sqft)

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	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	38.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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					
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022			2,457.4682	0.6235		2,470.5620
Total	**2.7216**	**26.5855**	**20.8712**	**0.0245**		**1.6062**	**1.6062**		**1.5022**	**1.5022**			**2,457.4682**	**0.6235**		**2,470.5620**

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0414	0.0580	0.5259	1.1900e-003	12.4996	7.3000e-004	12.5003	1.2641	6.8000e-004	1.2647			94.6714	4.7700e-003		94.7715
Total	**0.0414**	**0.0580**	**0.5259**	**1.1900e-003**	**12.4996**	**7.3000e-004**	**12.5003**	**1.2641**	**6.8000e-004**	**1.2647**			**94.6714**	**4.7700e-003**		**94.7715**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022	0.0000		2,457.4682	0.6235		2,470.5620
Total	**2.7216**	**26.5855**	**20.8712**	**0.0245**		**1.6062**	**1.6062**		**1.5022**	**1.5022**	**0.0000**		**2,457.4682**	**0.6235**		**2,470.5620**

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0414	0.0580	0.5259	1.1900e-003	0.1012	7.3000e-004	0.1020	0.0270	6.8000e-004	0.0276			94.6714	4.7700e-003		94.7715
Total	**0.0414**	**0.0580**	**0.5259**	**1.1900e-003**	**0.1012**	**7.3000e-004**	**0.1020**	**0.0270**	**6.8000e-004**	**0.0276**			**94.6714**	**4.7700e-003**		**94.7715**

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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.5289	28.6230	17.1310	0.0238		1.3967	1.3967		1.2850	1.2850			2,439.4360	0.7474		2,455.1322
Total	**2.5289**	**28.6230**	**17.1310**	**0.0238**	**1.5908**	**1.3967**	**2.9875**	**0.1718**	**1.2850**	**1.4567**			**2,439.4360**	**0.7474**		**2,455.1322**

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0255	0.0357	0.3236	7.3000e-004	7.6920	4.5000e-004	7.6925	0.7779	4.2000e-004	0.7783			58.2593	2.9300e-003		58.3209
Total	**0.0255**	**0.0357**	**0.3236**	**7.3000e-004**	**7.6920**	**4.5000e-004**	**7.6925**	**0.7779**	**4.2000e-004**	**0.7783**			**58.2593**	**2.9300e-003**		**58.3209**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.5289	28.6230	17.1310	0.0238		1.3967	1.3967		1.2850	1.2850	0.0000		2,439.4360	0.7474		2,455.1322
Total	**2.5289**	**28.6230**	**17.1310**	**0.0238**	**1.5908**	**1.3967**	**2.9875**	**0.1718**	**1.2850**	**1.4567**	**0.0000**		**2,439.4360**	**0.7474**		**2,455.1322**

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0255	0.0357	0.3236	7.3000e-004	0.0623	4.5000e-004	0.0627	0.0166	4.2000e-004	0.0170			58.2593	2.9300e-003		58.3209
Total	**0.0255**	**0.0357**	**0.3236**	**7.3000e-004**	**0.0623**	**4.5000e-004**	**0.0627**	**0.0166**	**4.2000e-004**	**0.0170**			**58.2593**	**2.9300e-003**		**58.3209**

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306			2,104.5737	0.6448		2,118.1153
Total	**2.6973**	**28.1608**	**18.9679**	**0.0206**	**6.5523**	**1.5550**	**8.1074**	**3.3675**	**1.4306**	**4.7981**			**2,104.5737**	**0.6448**		**2,118.1153**

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0319	0.0446	0.4046	9.2000e-004	9.6151	5.6000e-004	9.6156	0.9724	5.2000e-004	0.9729			72.8241	3.6700e-003		72.9011
Total	**0.0319**	**0.0446**	**0.4046**	**9.2000e-004**	**9.6151**	**5.6000e-004**	**9.6156**	**0.9724**	**5.2000e-004**	**0.9729**			**72.8241**	**3.6700e-003**		**72.9011**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306	0.0000		2,104.5737	0.6448		2,118.1153
Total	**2.6973**	**28.1608**	**18.9679**	**0.0206**	**6.5523**	**1.5550**	**8.1074**	**3.3675**	**1.4306**	**4.7981**	**0.0000**		**2,104.5737**	**0.6448**		**2,118.1153**

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0319	0.0446	0.4046	9.2000e-004	0.0779	5.6000e-004	0.0784	0.0207	5.2000e-004	0.0213			72.8241	3.6700e-003		72.9011
Total	**0.0319**	**0.0446**	**0.4046**	**9.2000e-004**	**0.0779**	**5.6000e-004**	**0.0784**	**0.0207**	**5.2000e-004**	**0.0213**			**72.8241**	**3.6700e-003**		**72.9011**

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	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998			2,334.8503	0.5189		2,345.7479
Total	**3.3275**	**22.8585**	**16.2492**	**0.0249**		**1.4621**	**1.4621**		**1.3998**	**1.3998**			**2,334.8503**	**0.5189**		**2,345.7479**

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.2206	1.2936	3.0859	3.5900e-003	9.7657	0.0203	9.7860	0.9925	0.0187	1.0112			352.1721	2.7500e-003		352.2299
Worker	0.1211	0.1694	1.5373	3.4800e-003	36.5372	2.1500e-003	36.5394	3.6950	1.9800e-003	3.6969			276.7317	0.0139		277.0243
Total	**0.3417**	**1.4630**	**4.6232**	**7.0700e-003**	**46.3029**	**0.0225**	**46.3254**	**4.6875**	**0.0207**	**4.7081**			**628.9038**	**0.0167**		**629.2541**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998	0.0000		2,334.8503	0.5189		2,345.7479
Total	**3.3275**	**22.8585**	**16.2492**	**0.0249**		**1.4621**	**1.4621**		**1.3998**	**1.3998**	**0.0000**		**2,334.8503**	**0.5189**		**2,345.7479**

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.2206	1.2936	3.0859	3.5900e-003	0.0961	0.0203	0.1164	0.0277	0.0187	0.0464			352.1721	2.7500e-003		352.2299
Worker	0.1211	0.1694	1.5373	3.4800e-003	0.2959	2.1500e-003	0.2980	0.0788	1.9800e-003	0.0808			276.7317	0.0139		277.0243
Total	**0.3417**	**1.4630**	**4.6232**	**7.0700e-003**	**0.3919**	**0.0225**	**0.4144**	**0.1065**	**0.0207**	**0.1272**			**628.9038**	**0.0167**		**629.2541**

3.6 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423			1,777.4745	0.5344		1,788.6966
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7188**	**16.4619**	**12.0566**	**0.0176**		**1.0230**	**1.0230**		**0.9423**	**0.9423**			**1,777.4745**	**0.5344**		**1,788.6966**

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0478	0.0669	0.6068	1.3700e-003	14.4226	8.5000e-004	14.4234	1.4585	7.8000e-004	1.4593			109.2362	5.5000e-003		109.3517
Total	**0.0478**	**0.0669**	**0.6068**	**1.3700e-003**	**14.4226**	**8.5000e-004**	**14.4234**	**1.4585**	**7.8000e-004**	**1.4593**			**109.2362**	**5.5000e-003**		**109.3517**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423	0.0000		1,777.4745	0.5344		1,788.6966
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7188**	**16.4619**	**12.0566**	**0.0176**		**1.0230**	**1.0230**		**0.9423**	**0.9423**	**0.0000**		**1,777.4745**	**0.5344**		**1,788.6966**

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0478	0.0669	0.6068	1.3700e-003	0.1168	8.5000e-004	0.1176	0.0311	7.8000e-004	0.0319			109.2362	5.5000e-003		109.3517
Total	**0.0478**	**0.0669**	**0.6068**	**1.3700e-003**	**0.1168**	**8.5000e-004**	**0.1176**	**0.0311**	**7.8000e-004**	**0.0319**			**109.2362**	**5.5000e-003**		**109.3517**

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	106.8599					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733			281.4481	0.0297		282.0721
Total	**107.1922**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**			**281.4481**	**0.0297**		**282.0721**

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0255	0.0357	0.3236	7.3000e-004	7.6920	4.5000e-004	7.6925	0.7779	4.2000e-004	0.7783			58.2593	2.9300e-003		58.3209
Total	**0.0255**	**0.0357**	**0.3236**	**7.3000e-004**	**7.6920**	**4.5000e-004**	**7.6925**	**0.7779**	**4.2000e-004**	**0.7783**			**58.2593**	**2.9300e-003**		**58.3209**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	106.8599					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000		281.4481	0.0297		282.0721
Total	**107.1922**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**	**0.0000**		**281.4481**	**0.0297**		**282.0721**

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0255	0.0357	0.3236	7.3000e-004	0.0623	4.5000e-004	0.0627	0.0166	4.2000e-004	0.0170			58.2593	2.9300e-003		58.3209
Total	**0.0255**	**0.0357**	**0.3236**	**7.3000e-004**	**0.0623**	**4.5000e-004**	**0.0627**	**0.0166**	**4.2000e-004**	**0.0170**			**58.2593**	**2.9300e-003**		**58.3209**

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	106.8599					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	0.0267		282.0102
Total	**107.1586**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**			**281.4485**	**0.0267**		**282.0102**

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0227	0.0321	0.2873	7.3000e-004	7.6920	4.4000e-004	7.6925	0.7779	4.1000e-004	0.7783			56.0771	2.7000e-003		56.1337
Total	**0.0227**	**0.0321**	**0.2873**	**7.3000e-004**	**7.6920**	**4.4000e-004**	**7.6925**	**0.7779**	**4.1000e-004**	**0.7783**			**56.0771**	**2.7000e-003**		**56.1337**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	106.8599					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	0.0267		282.0102
Total	**107.1586**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**		**281.4485**	**0.0267**		**282.0102**

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0227	0.0321	0.2873	7.3000e-004	0.0623	4.4000e-004	0.0627	0.0166	4.1000e-004	0.0170			56.0771	2.7000e-003		56.1337
Total	**0.0227**	**0.0321**	**0.2873**	**7.3000e-004**	**0.0623**	**4.4000e-004**	**0.0627**	**0.0166**	**4.1000e-004**	**0.0170**			**56.0771**	**2.7000e-003**		**56.1337**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.5271	5.6734	27.1429	0.0494	3.3651	0.0800	3.4451	0.9025	0.0737	0.9763			3,887.6488	0.1314		3,890.4087
Unmitigated	2.5271	5.6734	27.1429	0.0494	3.3651	0.0800	3.4451	0.9025	0.0737	0.9763			3,887.6488	0.1314		3,890.4087

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	829.20	829.20	829.20	1,575,423	1,575,423
Parking Lot	0.00	0.00	0.00		
Total	829.20	829.20	829.20	1,575,423	1,575,423

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
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.481024	0.067566	0.151854	0.147984	0.059070	0.006635	0.036879	0.035846	0.000913	0.001880	0.007644	0.000647	0.002057

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
NaturalGas Unmitigated	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747

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
Hotel	9715.66	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
Total		**0.1048**	**0.9525**	**0.8001**	**5.7200e-003**		**0.0724**	**0.0724**		**0.0724**	**0.0724**			**1,143.0185**	**0.0219**	**0.0210**	**1,149.9747**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	9.71566	0.1048	0.9525	0.8001	5.7200e-003		0.0724	0.0724		0.0724	0.0724			1,143.0185	0.0219	0.0210	1,149.9747
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
Total		**0.1048**	**0.9525**	**0.8001**	**5.7200e-003**		**0.0724**	**0.0724**		**0.0724**	**0.0724**			**1,143.0185**	**0.0219**	**0.0210**	**1,149.9747**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2094	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Unmitigated	2.2094	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2600e-003	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Total	**2.2094**	**2.2000e-004**	**0.0240**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**			**0.0512**	**1.4000e-004**		**0.0541**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2600e-003	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005			0.0512	1.4000e-004		0.0541
Total	**2.2094**	**2.2000e-004**	**0.0240**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**			**0.0512**	**1.4000e-004**		**0.0541**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Shower

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