Appendix H

Air Quality Supplemental Information

Appendix H-1

TRPA Air Quality Environmental Threshold Carrying Capacities

TRPA ENVIRONMENTAL THRESHOLD CARRYING CAPACITIES

TRPA threshold standards address carbon monoxide (CO), ozone, regional and sub-regional visibility, and nitrate deposition. Numerical standards have been established for each of these parameters, and management standards have been developed that are intended to assist in attaining the threshold standards. The management standards include reducing particulate matter, maintaining levels of oxides of nitrogen (NO_X), reducing traffic volumes on U.S. Highway 50 (US 50), and reducing vehicle miles traveled (VMT). These threshold standards and associated management standards are described in more detail below. In addition, the Compact states that the Regional Plan shall provide for attaining and maintaining federal, state, or local air quality standards, whichever are strictest, in the respective portions of the Region for which the standards are applicable.

Thresholds and standards for air quality are listed below and in Table 1 (TRPA 2012). Threshold standards related to VMT and traffic volume are addressed further in Section 10, Transportation.

CARBON MONOXIDE

- **Numerical Standard:** Maintain CO concentrations at or below 9 ppm averaged over 8 hours.
- **Management Standard:** Reduce average daily traffic volume between 4:00 p.m. and midnight in the US 50 corridor by 7 percent from the 1981 base year during the months of November through February.

OZONE

- **Numerical Standard**: Maintain ozone concentration below 0.08 ppm averaged over 1 hour.
- **Numerical Standard**: Maintain NO_X emissions at or below the 1981 level.

REGIONAL VISIBILITY

- **Numerical Standards:**
  - Achieve 156 kilometers (97 miles) at least 50 percent of the year as measured by aerosol concentrations measured at the Bliss State Park monitoring site.
  - Achieve 115 kilometers (71 miles) at least 90 percent of the year as measured by aerosol concentrations measured at the Bliss State Park monitoring site.
- **Management Standard:** Reduce wood smoke emissions by 15 percent of the 1981 base values through technology, management practices, and educational programs.

SUBREGIONAL VISIBILITY

- **Numerical Standards:**

- Achieve 78 kilometers (48 miles) at least 50 percent of the year as measured by particulate concentrations measured at the South Lake Tahoe monitoring site.
- Achieve 31 kilometers (19 miles) at least 90 percent of the year as measured by particulate concentrations measured at the South Lake Tahoe monitoring site.

- **Management Standards:**
  - Reduce suspended soil particles by 30 percent of the 1981 base values through technology, management practices, and educational programs.
  - Reduce wood smoke emissions by 15 percent of the 1981 base values through technology, management practices, and educational programs.
  - Reduce vehicle miles of travel by 10 percent of the 1981 base values.

ATMOSPHERIC DEPOSITION

- **Water Quality Numerical Standard:** Reduce dissolved inorganic nitrogen loading to Lake Tahoe from atmospheric sources by approximately 20 percent of the 1973–1981 annual average.
- **Management Standards:**
  - Reduce dissolved inorganic nitrogen loads from surface runoff by approximately 50 percent, from groundwater approximately 30 percent, and from atmospheric sources approximately 20 percent of the 1973–1981 annual average. This threshold standard relies on predicted reductions in pollutant loadings from out-of-basin sources as part of the total pollutant loading reduction.
  - Reduce the transport of nitrates into the LTAB and reduce oxides of nitrogen produced in the LTAB consistent with water quality threshold standards.
  - Reduce vehicles miles of travel in the Lake Tahoe Basin by 10 percent of the 1981 base year values.

Attainment status and trends of each air quality indicator are summarized in Table 1. The latest threshold evaluation available was the 2011 Threshold Evaluation, released in April 2012.

Table 1. Air Quality Indicator Attainment Status and Trends

Threshold Indicator Reporting Category	1991 Attainment Status	1996 Attainment Status	2001 Attainment Status	2006 Attainment Status	2011 Attainment Status[1]	Trend
Carbon monoxide	Non-attainment	Attainment	Attainment	Non-attainment	Considerably better than target	Rapid improvement
Ozone	Non-attainment	Non-attainment	Non-attainment	Non-attainment	At or somewhat better than target	Little or no change
Particulate matter	Non-attainment	Non-attainment	Attainment	Non-attainment	At or somewhat better than target	Little or no change
Visibility	Attainment	Non-attainment	Non-attainment	Attainment	Considerably better than target	Moderate improvement
Nitrate deposition	Unknown	Unknown	Unknown	Unknown	Implemented[2]	Unknown
Odor	No Designation	No Designation	No Designation	No Designation	Implemented[2]	Unknown

Notes: [1] Change in terminology occurred in 2011 Threshold Evaluation.
[2] "Implemented" refers to implementation of a management standard rather than monitoring the achievement of a numerical standard.
Source: TRPA 2007:2-8; TRPA 2012.

REFERENCES

Tahoe Regional Planning Agency. 2007 (September). *2006 Threshold Evaluation Report.* Stateline, NV. Available: http://www.tiims.org/Data-Repository/Documents/Lake-Tahoe-Basin/Science-and-Reporting/Data-Synthesis,-Reporting,-and-Management/Reporting/TRPA/2006/2006-TRPA-Threshold-Evaluation---Chapter-9-Noise.aspx

———.2012. *2011 Threshold Evaluation Report.* Chapter 10 Noise. Stateline, NV.

Appendix H-2

PCAPCD Fugitive Dust Control Requirements Fact Sheet

PLACER COUNTY AIR POLLUTION CONTROL DISTRICT
110 Maple Street, Auburn, CA 95603 ♦ (530) 745-2330 ♦ Fax: (530) 745-2373

FUGITIVE DUST CONTROL REQUIREMENTS FACT SHEET

Construction and Grading Dust Control Requirements

Rule 228, Fugitive Dust, is applicable to the entire County of Placer and addresses fugitive dust generated by construction and grading activities, and by other land use practices including recreational activities.

Fugitive dust is particulate matter discharged into the atmosphere due to a man-made activity or condition. Examples of dust sources that are subject to the rule are excavating and trenching, drilling, boring, earthmoving and grading operations, pavement or masonry cutting operations, brush clearing, travel on unpaved roads within construction sites, and wind-blown dust from uncovered graded areas and storage piles. Private recreational uses that could be considered dust sources include horse arenas and dirt motorcycle and ATV tracks. Commercial agricultural operations are exempt from this rule. Any dust problems created by commercial agricultural operations, as defined by Placer County ordinances, will be addressed in cooperation with the Placer County Agricultural Commissioner, and when necessary under State and District nuisance regulations.

For areas to be disturbed of any size, Rule 228, Fugitive Dust, Section 400 establishes standards to be met by activities generating fugitive dust. Minimum dust control requirements, summarized below, are to be initiated at the start and maintained throughout the duration of construction:

401.1 – Unpaved areas subject to vehicle traffic must be stabilized by being kept wet, treated with a chemical dust suppressant, or covered. In geographic ultramafic rock units, or when naturally-occurring asbestos, ultramafic rock, or serpentine is to be disturbed, the cover material shall contain less than 0.25 percent asbestos as determined using the bulk sampling method for asbestos in Section 502.

401.2 – The speed of any vehicles and equipment traveling across unpaved areas must be no more than 15 miles per hour unless the road surface and surrounding area is sufficiently stabilized to prevent vehicles and equipment traveling more than 15 miles per hour from emitting dust exceeding Ringelmann 2 or visible emissions from crossing the project boundary line.

401.3 – 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.

401.4 – Prior to any ground disturbance, including grading, excavating, and land clearing, sufficient water must be applied to the area to be disturbed to prevent emitting dust exceeding Ringelmann 2 and to minimize visible emissions from crossing the boundary line.

401.5 – Construction vehicles leaving the site must be cleaned to prevent dust, silt, mud, and dirt from being released or tracked off site.

401.6 – When wind speeds are high enough to result in dust emissions crossing the boundary line, despite the application of dust mitigation measures, grading and earthmoving operations shall be suspended.

401.7 – No trucks are allowed to transport excavated material off-site unless the trucks are maintained such that no spillage can occur from holes or other openings in cargo compartments, and loads are either;

401.7.1 Covered with tarps; or

401.7.2 Wetted and loaded such that the material does not touch the front, back, or sides of the cargo compartment at any point less than six inches from the top and that no point of the load extends above the top of the cargo compartment.

402 – A person shall take actions such as surface stabilization, establishment of a vegetative cover, or paving, to minimize wind-driven dust from inactive disturbed surface areas.

In addition, Rule 228 requires that all projects must minimize and clean-up the track-out of bulk material or other debris onto public paved roadways. For one acre and less disturbed surface area in areas that are not "Most Likely" to contain naturally-occurring asbestos (NOA) according to the District's NOA Hazard maps, and where NOA has not been found, only these minimum dust measures must be met (i.e., no Dust Control Plan is required).

For projects where greater than one acre of the site's surface will be disturbed, a Dust Control Plan (DCP) must be submitted to the District for approval prior to the start of earth-disturbing activities if this requirement has been established as a Condition of Approval of a discretionary permit. Instructions for the DCP and application form are available at the District's web page, or by contacting the District as indicated below.

Regardless of size, areas identified by the California Department of Conservation, California Geological Survey (CGS) as having the highest likelihood for the presence of NOA require additional dust control measures when the earth is disturbed. *California Code of Regulations, Title 17, Section 93105, Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations* (ATCM), and District Rule 228, Fugitive Dust, establish the minimum standards that must be met for dust control. To determine if earth-disturbing activities are to occur in an area identified by CGS as an area "Most Likely" to contain NOA, the District's NOA Hazard maps should be consulted. When an area to be disturbed is greater than one acre and in a "Most Likely" to contain NOA area, an Asbestos Dust Control Mitigation Plan (ADMP) must be prepared, submitted to and approved by the District prior to the start of earth-disturbing activities. For more information regarding dust control requirements for projects occurring in an area "Most Likely" to contain NOA, please refer to the *Dust Control for Projects in Areas "Most Likely" to Contain Naturally-Occurring Asbestos (NOA) Fact Sheet*.

Copies of the Final Regulation Order, *Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations*, are available from the District, (530) 745-2330, or can be downloaded by accessing the California Air Resources Board's Internet web page referenced below.

Additional Information Resources:

- Placer County Air Pollution Control District – www.placer.ca.gov/apcd
- Construction and Grading Dust Control Requirements
- Dust Control Plan Information - Dust Control Plan Instructions and Application
- Dust Control for Projects in Areas "Most Likely" to Contain Naturally-Occurring Asbestos (NOA) Fact Sheet
- *Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations* - www.arb.ca.gov/toxics/atcm/asb2atcm.htm
- Placer County Air Pollution Control District (District) Rule 228, Fugitive Dust – www.placer.ca.gov/Departments/Air/Rules.aspx
- District NOA Hazard Maps – www.placer.ca.gov/Departments/Air/NOA/NOAMapsAnd%20Resources.aspx
- Asbestos Dust Mitigation Plan Guidance and Related Forms – www.placer.ca.gov/Departments/Air/NOA/NOAConstructionAndGrading.aspx

Appendix H-3

Tahoe City Lodge CalEEMod Input and Output Parameters and Assumptions

Tahoe City Lodge Construction Emissions Summary

Air Quality

Construction Emissions Modeling Results Summary (Unmitigated)					
		Max Daily Emissions			
				Total	Total
		lbs/day	lbs/day	lbs/day	lbs/day
Alternative	**Construction Year**	**ROG**	**NOX**	**PM10**	**PM2.5**
1	2017	4.99	51.92	22.20	12.70
	2018	81.87	31.36	2.91	1.88
2	2017	4.99	51.92	22.20	12.70
	2018	47.85	28.78	2.47	1.73
3	2017	4.99	51.92	22.20	12.70
	2018	85.61	31.67	2.94	1.89
4	2017	28.76	30.00	2.37	1.87

Construction Emissions Modeling Results Summary (Mitigated)				
		Max Daily Emissions		
				Total
		lbs/day	lbs/day	lbs/day
Alternative	**Construction Year**	**ROG**	**NOX**	**PM10**
1	2017	1.19	11.13	9.12
	2018	8.23	10.26	1.45
3	2017	1.22	11.48	9.12
	2018	8.60	10.58	1.48

Greenhouse Gases

Construction Emissions Modeling Results Summary (Unmitigated)		
		MTCO2e
Alternative	**Construction Year**	**GHG**
1	2017	500
	2018	180
	Total	680
	Amortized (30-year)	23
2	2017	427
	2018	153
	Total	580
	Amortized (30-year)	19
3	2017	507
	2018	183
	Total	691
	Amortized (30-year)	23
4	2017	179
	Amortized (30-year)	6

Tahoe City Lodge Operational Emissions Modeling Results Summary (Change from Existing) (Unmitigated)											
		Max Daily Emissions					Annual Emissions				
					Exhaust				Exhaust		
Tahoe City Lodge		lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	tons/ year	tons/ year	tons/ year	tons/ year	MT/Year
Year	Alternative	ROG	NOX	CO	PM10	PM2.5	ROG	NOX	PM10	PM2.5	CO2e
2018	1	4.86	4.28	16.48	0.39	0.20	0.89	0.78	0.04	0.08	546.46
2018	2	-0.74	-3.48	-16.07	-0.33	-0.14	-0.13	-0.63	-0.02	-0.07	-99.20
2018	3	4.96	4.32	16.51	0.40	0.20	0.91	0.79	0.04	0.08	563.76
2018	4	6.71	11.33	46.63	1.06	0.50	1.22	2.07	0.09	0.21	988.11
PCAPCD Threshold		82	82	N/A	82	N/A	N/A	N/A	N/A	N/A	1100
Exceed Threshold?		No	No	No	No	No	No	No	No	No	No

Emissions Difference from Existing

Parameter	Max Daily Emissions					Annual Emissions					
									Exhaust		
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	tons/ year	tons/ year	tons/ year	tons/ year	tons/ year	MT/Year
Alternative 1	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**CO2e**
Area source emissions	2.676	0.000	0.019	0.000	0.000	0.488	0.000	0.002	0.000	0.000	0.005
Electrical Energy Use	0.070	0.638	0.536	0.049	0.049	0.000	0.000	0.000	0.000	0.000	121.332
Natural Gas Use	-0.022	-0.201	-0.169	-0.015	-0.015	0.009	0.080	0.067	0.006	0.006	87.233
Mobile	2.134	3.845	16.095	0.360	0.168	0.390	0.702	0.066	0.031	0.071	305.742
Waste	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25.298
Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.848
Emissions Total	4.858	4.282	16.480	0.393	0.201	0.886	0.782	0.135	0.037	0.077	546.458
Alternative 2											
Area source emissions	1.395	0.000	-0.001	0.000	0.000	0.255	0.000	0.000	0.000	0.000	0.000
Electrical Energy Use	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	119.873
Natural Gas Use	0.050	0.455	0.382	0.035	0.035	0.009	0.083	0.070	0.006	0.006	90.894
Mobile	-2.181	-3.930	-16.447	-0.368	-0.172	-0.398	-0.717	-0.067	-0.031	-0.073	-312.444
Waste	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-1.347
Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.821
Emissions Total	-0.736	-3.475	-16.066	-0.333	-0.137	-0.134	-0.634	0.002	-0.025	-0.066	-99.202

	Max Daily Emissions					Annual Emissions					
									Exhaust		
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	tons/ year	tons/ year	tons/ year	tons/ year	tons/ year	MT/Year
Alternative 3	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**CO2e**
Area source emissions	2.774	0.000	0.019	0.000	0.000	0.506	0.000	0.002	0.000	0.000	0.005
Electrical Energy Use	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	136.894
Natural Gas Use	0.053	0.477	0.401	0.036	0.036	0.010	0.087	0.073	0.007	0.007	95.332
Mobile	2.134	3.845	16.095	0.360	0.168	0.390	0.702	0.066	0.031	0.071	305.742
Waste	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.083
Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.707
Emissions Total	4.961	4.322	16.514	0.396	0.204	0.905	0.789	0.141	0.037	0.078	563.763
Alternative 4											
Area source emissions	0.528	0.000	0.002	0.000	0.000	0.096	0.000	0.000	0.000	0.000	0.000
Electrical Energy Use	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	39.776
Natural Gas Use	0.026	0.232	0.195	0.018	0.018	0.005	0.042	0.036	0.003	0.003	46.286
Mobile	6.157	11.094	46.433	1.039	0.484	1.124	2.025	0.190	0.088	0.205	882.071
Waste	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.369
Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.602
Emissions Total	6.711	11.326	46.630	1.056	0.502	1.225	2.067	0.225	0.092	0.208	988.106

Tahoe City Lodge Architectural Coating Assumptions and Calculations (to replace CalEEMod defaults)

Tahoe City Lodge - Existing	Residential (sqft)		Non-Residential (sqft)	
	Interior	Exterior	Interior	Exterior
	-	-	26,579	10,484

Building Construction Assumptions		
Land Uses	Amount	Units
Non-Residential	17,719	sqft
Parking Spaces - Reception	70	Spaces

Tahoe City Lodge - Alt 1	Residential (sqft)		Non-Residential (sqft)	
	Interior	Exterior	Interior	Exterior
	-	-	156,011	55,043

Building Construction Assumptions		
Land Uses	Amount	Units
Non-Residential	104,007	sqft
Parking Spaces - Reception	131	Spaces

Tahoe City Lodge - Alt 2	Residential (sqft)		Non-Residential (sqft)	
	Interior	Exterior	Interior	Exterior
	-	-	90,840	32,182

Building Construction Assumptions		
Land Uses	Amount	Units
Non-Residential	60,560	sqft
Parking Spaces - Reception	82	Spaces

Tahoe City Lodge - Alt 3	Residential (sqft)		Non-Residential (sqft)	
	Interior	Exterior	Interior	Exterior
	-	-	163,373	57,358

Building Construction Assumptions		
Land Uses	Amount	Units
Non-Residential	108,915	sqft
Parking Spaces - Reception	125	Spaces

Tahoe City Lodge - Alt 4	Residential (sqft)		Non-Residential (sqft)	
	Interior	Exterior	Interior	Exterior
	-	-	53,934	19,602

Building Construction Assumptions		
Land Uses	Amount	Units
Non-Residential	35,956	sqft
Parking Spaces - Reception	70	Spaces

sqft per parking space	400	CalEEMod Appx D. Table 2.1

Calculation Method	See Section 4.7 in Appendix A and Section 7 in Appendix E of the CalEEMod User's Guide

Tahoe City Lodge Mobile Source Emissions during Operations

Average Emission Factors from EMFAC 2014									
		lbs/mi (summer used only)					g/mi (annual used only)		
Season	Location and Year	ROG	CO	NO_X	PM_{10}	$PM_{2.5}$	CO2	CH4	N2O
Summer	Tahoe Basin in 2018	7.67E-04	5.78E-03	1.38E-03	1.29E-04	6.03E-05	450.85405	0.02658	0.01455
Annual	Tahoe Basin in 2035	1.64E-04	1.24E-03	2.72E-04	8.69E-05	3.61E-05	210.12758	0.00549	0.00343

Alternative	Net change in daily vehicle miles travelled (From LSC Memo)	Net change in annual vehicle miles travelled
1	2,783	670,703
2	-2,844	-685,404
3	2,783	670,703
4	8,029	1,934,989

2018		lbs/day					MT/year			
Alternative	Net change in daily vehicle miles travelled	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$	CO2	CH4	N2O	CO2e
1	2783	2.13	3.85	16.09	0.36	0.17	302.39	0.02	0.01	305.74
2	-2844	-2.18	-3.93	-16.45	-0.37	-0.17	-309.02	-0.02	-0.01	-312.44
3	2783	2.13	3.85	16.09	0.36	0.17	302.39	0.02	0.01	305.74
4	8029	6.16	11.09	46.43	1.04	0.48	872.40	0.05	0.03	882.07

2035		lbs/day					MT/year			
Alternative	Net change in daily vehicle miles travelled	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$	CO2	CH4	N2O	CO2e
1	2783	0.46	0.76	3.44	0.24	0.10	140.93	0.00	0.00	141.71
2	-2844	-0.47	-0.77	-3.52	-0.25	-0.10	-144.02	0.00	0.00	-144.82
3	2783	0.46	0.76	3.44	0.24	0.10	140.93	0.00	0.00	141.71
4	8029	1.32	2.19	9.93	0.70	0.29	406.59	0.01	0.01	408.84

VMT from LSC Transportation Consultants Memo					
Alternative	Existing	1	2	3	4
VMT	5787	8570	2943	8570	13816
	Difference from Exisiting-->	2783	-2844	2783	8029

Source: Table E in LSC Memo (2/16/2016)

Tahoe City Lodge - Existing

Lake Tahoe Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.00	1000sqft	0.02	999.00	0
General Light Industry	0.74	1000sqft	0.02	735.00	0
Parking Lot	70.00	Space	0.63	28,000.00	0
Fast Food Restaurant w/o Drive Thru	1.34	1000sqft	0.03	1,335.00	0
Golf Course	4.00	Hole	0.80	0.00	0
High Turnover (Sit Down Restaurant)	4.26	1000sqft	0.10	4,263.00	0
Racquet Club	2.88	1000sqft	0.07	2,880.00	0
Hardware/Paint Store	1.57	1000sqft	0.04	1,571.00	0
Strip Mall	5.94	1000sqft	0.14	5,936.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	461.58	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CEC for Liberty Utility in 2013.

Land Use - Land uses based on estimates. Strip mall land use includes furniture store, hair salon, and specialty retail center. Restaurant includes kitchen sqft. Fast food includes coffee shop.

Construction Phase - No construction under existing.

Trips and VMT - 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc).

Architectural Coating -

Vehicle Trips - Racquet Club represents Golf Course Clubhouse and may overestimate trips somewhat.

Area Coating - Arch Coating sqft calculated separately. Assumes total of 17,719 sqft of non-res space and 70 parking spots to be striped. 26,579 int. 10,484 ext.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use - Racquet Club represents Golf Course Clubhouse

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	9280	10484
tblAreaCoating	Area_Nonresidential_Interior	27839	26579
tblConstructionPhase	NumDays	200.00	1.00
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	1,000.00	999.00
tblLandUse	LandUseSquareFeet	740.00	735.00
tblLandUse	LandUseSquareFeet	1,340.00	1,335.00
tblLandUse	LandUseSquareFeet	4,260.00	4,263.00
tblLandUse	LandUseSquareFeet	1,570.00	1,571.00
tblLandUse	LandUseSquareFeet	5,940.00	5,936.00
tblLandUse	LotAcreage	27.92	0.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	0	461.58
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	15.44	23.84
tblSolidWaste	SolidWasteGenerationRate	0.93	0.30
tblSolidWaste	SolidWasteGenerationRate	50.69	77.71
tblSolidWaste	SolidWasteGenerationRate	6.24	6.31
tblTripsAndVMT	VendorTripLength	7.30	35.00
tblTripsAndVMT	VendorTripNumber	7.00	10.00
tblTripsAndVMT	WorkerTripNumber	18.00	26.00
tblWater	IndoorWaterUseRate	406,735.17	628,314.78
tblWater	IndoorWaterUseRate	177,733.75	56,874.80
tblWater	IndoorWaterUseRate	1,293,053.61	1,982,075.14
tblWater	IndoorWaterUseRate	439,990.78	445,175.85
tblWater	OutdoorWaterUseRate	25,961.82	40,105.20
tblWater	OutdoorWaterUseRate	108,933.59	34,858.75
tblWater	OutdoorWaterUseRate	82,535.34	126,515.43
tblWater	OutdoorWaterUseRate	269,671.77	272,849.72

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	1.7600e-003	0.0151	0.0116	2.0000e-005	2.5000e-004	9.2000e-004	1.1700e-003	7.0000e-005	8.6000e-004	9.3000e-004	0.0000	1.7600	1.7600	3.0000e-004	0.0000	1.7664
Total	**1.7600e-003**	**0.0151**	**0.0116**	**2.0000e-005**	**2.5000e-004**	**9.2000e-004**	**1.1700e-003**	**7.0000e-005**	**8.6000e-004**	**9.3000e-004**	**0.0000**	**1.7600**	**1.7600**	**3.0000e-004**	**0.0000**	**1.7664**

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	1.7600e-003	0.0151	0.0116	2.0000e-005	2.5000e-004	9.2000e-004	1.1700e-003	7.0000e-005	8.6000e-004	9.3000e-004	0.0000	1.7600	1.7600	3.0000e-004	0.0000	1.7664
Total	**1.7600e-003**	**0.0151**	**0.0116**	**2.0000e-005**	**2.5000e-004**	**9.2000e-004**	**1.1700e-003**	**7.0000e-005**	**8.6000e-004**	**9.3000e-004**	**0.0000**	**1.7600**	**1.7600**	**3.0000e-004**	**0.0000**	**1.7664**

	ROG	NOx	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**

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	0.1916	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2500e-003	2.2500e-003	1.0000e-005	0.0000	2.3800e-003
Energy	4.0400e-003	0.0367	0.0309	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	105.9916	105.9916	7.7000e-004	7.3000e-004	106.2350
Mobile	1.6861	2.6155	15.8037	0.0190	1.1394	0.0293	1.1687	0.3058	0.0270	0.3328	0.0000	1,420.1649	1,420.1649	0.0798	0.0000	1,421.8402
Waste						0.0000	0.0000		0.0000	0.0000	29.1170	0.0000	29.1170	1.7208	0.0000	65.2531
Water						0.0000	0.0000		0.0000	0.0000	1.1327	28.9020	30.0347	0.1163	2.7500e-003	33.3292
Total	**1.8817**	**2.6523**	**15.8357**	**0.0192**	**1.1394**	**0.0321**	**1.1715**	**0.3058**	**0.0298**	**0.3356**	**30.2497**	**1,555.0607**	**1,585.3104**	**1.9177**	**3.4800e-003**	**1,626.6599**

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	0.1916	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2500e-003	2.2500e-003	1.0000e-005	0.0000	2.3800e-003
Energy	4.0400e-003	0.0367	0.0309	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	105.9916	105.9916	7.7000e-004	7.3000e-004	106.2350
Mobile	1.6861	2.6155	15.8037	0.0190	1.1394	0.0293	1.1687	0.3058	0.0270	0.3328	0.0000	1,420.1649	1,420.1649	0.0798	0.0000	1,421.8402
Waste						0.0000	0.0000		0.0000	0.0000	29.1170	0.0000	29.1170	1.7208	0.0000	65.2531
Water						0.0000	0.0000		0.0000	0.0000	1.1327	28.9020	30.0347	0.1163	2.7500e-003	33.3292
Total	**1.8817**	**2.6523**	**15.8357**	**0.0192**	**1.1394**	**0.0321**	**1.1715**	**0.3058**	**0.0298**	**0.3356**	**30.2497**	**1,555.0607**	**1,585.3104**	**1.9177**	**3.4800e-003**	**1,626.6599**

	ROG	NOx	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	Building Construction	Building Construction	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	26.00	10.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 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	1.5500e-003	0.0132	9.0600e-003	1.0000e-005		8.9000e-004	8.9000e-004		8.4000e-004	8.4000e-004	0.0000	1.1974	1.1974	2.9000e-004	0.0000	1.2036
Total	**1.5500e-003**	**0.0132**	**9.0600e-003**	**1.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.4000e-004**	**8.4000e-004**	**0.0000**	**1.1974**	**1.1974**	**2.9000e-004**	**0.0000**	**1.2036**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	1.7700e-003	1.6200e-003	1.0000e-005	1.5000e-004	3.0000e-005	1.8000e-004	4.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.4703	0.4703	0.0000	0.0000	0.4703
Worker	6.0000e-005	7.0000e-005	9.0000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0923	0.0923	1.0000e-005	0.0000	0.0925
Total	**2.0000e-004**	**1.8400e-003**	**2.5200e-003**	**1.0000e-005**	**2.5000e-004**	**3.0000e-005**	**2.8000e-004**	**7.0000e-005**	**2.0000e-005**	**1.0000e-004**	**0.0000**	**0.5626**	**0.5626**	**1.0000e-005**	**0.0000**	**0.5628**

3.2 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5500e-003	0.0132	9.0600e-003	1.0000e-005		8.9000e-004	8.9000e-004		8.4000e-004	8.4000e-004	0.0000	1.1974	1.1974	2.9000e-004	0.0000	1.2036
Total	**1.5500e-003**	**0.0132**	**9.0600e-003**	**1.0000e-005**		**8.9000e-004**	**8.9000e-004**		**8.4000e-004**	**8.4000e-004**	**0.0000**	**1.1974**	**1.1974**	**2.9000e-004**	**0.0000**	**1.2036**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	1.7700e-003	1.6200e-003	1.0000e-005	1.5000e-004	3.0000e-005	1.8000e-004	4.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.4703	0.4703	0.0000	0.0000	0.4703
Worker	6.0000e-005	7.0000e-005	9.0000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0923	0.0923	1.0000e-005	0.0000	0.0925
Total	**2.0000e-004**	**1.8400e-003**	**2.5200e-003**	**1.0000e-005**	**2.5000e-004**	**3.0000e-005**	**2.8000e-004**	**7.0000e-005**	**2.0000e-005**	**1.0000e-004**	**0.0000**	**0.5626**	**0.5626**	**1.0000e-005**	**0.0000**	**0.5628**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6861	2.6155	15.8037	0.0190	1.1394	0.0293	1.1687	0.3058	0.0270	0.3328	0.0000	1,420.1649	1,420.1649	0.0798	0.0000	1,421.8402
Unmitigated	1.6861	2.6155	15.8037	0.0190	1.1394	0.0293	1.1687	0.3058	0.0270	0.3328	0.0000	1,420.1649	1,420.1649	0.0798	0.0000	1,421.8402

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	5.16	0.98	0.50	11,373	11,373
Fast Food Restaurant w/o Drive Thru	959.44	932.64	670.00	1,474,311	1,474,311
General Office Building	11.01	2.37	0.98	19,937	19,937
Golf Course	142.96	162.52	158.12	267,333	267,333
Hardware/Paint Store	80.53	129.56	107.78	132,999	132,999
High Turnover (Sit Down Restaurant)	541.66	674.66	561.64	653,824	653,824
Parking Lot	0.00	0.00	0.00		
Racquet Club	94.84	60.11	76.98	148,538	148,538
Strip Mall	263.26	249.72	121.35	371,231	371,231
Total	2,098.85	2,212.54	1,697.36	3,079,546	3,079,546

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Hardware/Paint Store	9.50	7.30	7.30	13.60	67.40	19.00	45	29	26
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	65.9994	65.9994	0.0000	0.0000	65.9994
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	65.9994	65.9994	0.0000	0.0000	65.9994
NaturalGas Mitigated	4.0400e-003	0.0367	0.0309	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9922	39.9922	7.7000e-004	7.3000e-004	40.2356
NaturalGas Unmitigated	4.0400e-003	0.0367	0.0309	2.2000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	39.9922	39.9922	7.7000e-004	7.3000e-004	40.2356

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					
General Office Building	20539.4	1.1000e-004	1.0100e-003	8.5000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0961	1.0961	2.0000e-005	2.0000e-005	1.1027
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hardware/Paint Store	11923.9	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6363	0.6363	1.0000e-005	1.0000e-005	0.6402
High Turnover (Sit Down Restaurant)	501542	2.7000e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	26.7642	26.7642	5.1000e-004	4.9000e-004	26.9271
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	10598.4	6.0000e-005	5.2000e-004	4.4000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5656	0.5656	1.0000e-005	1.0000e-005	0.5690
Strip Mall	45054.2	2.4000e-004	2.2100e-003	1.8600e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4043	2.4043	5.0000e-005	4.0000e-005	2.4189
Fast Food Restaurant w/o Drive Thru	157063	8.5000e-004	7.7000e-003	6.4700e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.3815	8.3815	1.6000e-004	1.5000e-004	8.4325
General Light Industry	2704.8	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1443	0.1443	0.0000	0.0000	0.1452
Total		**4.0300e-003**	**0.0367**	**0.0309**	**2.2000e-004**		**2.8000e-003**	**2.8000e-003**		**2.8000e-003**	**2.8000e-003**	**0.0000**	**39.9922**	**39.9922**	**7.6000e-004**	**7.2000e-004**	**40.2356**

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					
General Office Building	20539.4	1.1000e-004	1.0100e-003	8.5000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0961	1.0961	2.0000e-005	2.0000e-005	1.1027
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hardware/Paint Store	11923.9	6.0000e-005	5.8000e-004	4.9000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6363	0.6363	1.0000e-005	1.0000e-005	0.6402
High Turnover (Sit Down Restaurant)	501542	2.7000e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	26.7642	26.7642	5.1000e-004	4.9000e-004	26.9271
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	10598.4	6.0000e-005	5.2000e-004	4.4000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5656	0.5656	1.0000e-005	1.0000e-005	0.5690
Strip Mall	45054.2	2.4000e-004	2.2100e-003	1.8600e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4043	2.4043	5.0000e-005	4.0000e-005	2.4189
Fast Food Restaurant w/o Drive Thru	157063	8.5000e-004	7.7000e-003	6.4700e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.3815	8.3815	1.6000e-004	1.5000e-004	8.4325
General Light Industry	2704.8	1.0000e-005	1.3000e-004	1.1000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1443	0.1443	0.0000	0.0000	0.1452
Total		**4.0300e-003**	**0.0367**	**0.0309**	**2.2000e-004**		**2.8000e-003**	**2.8000e-003**		**2.8000e-003**	**2.8000e-003**	**0.0000**	**39.9922**	**39.9922**	**7.6000e-004**	**7.2000e-004**	**40.2356**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant w/o Drive Thru	34816.8	7.2896	0.0000	0.0000	7.2896
General Light Industry	3476.55	0.7279	0.0000	0.0000	0.7279
General Office Building	12337.7	2.5831	0.0000	0.0000	2.5831
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Hardware/Paint Store	24099.1	5.0456	0.0000	0.0000	5.0456
High Turnover (Sit Down Restaurant)	111179	23.2775	0.0000	0.0000	23.2775
Parking Lot	24640	5.1589	0.0000	0.0000	5.1589
Racquet Club	13622.4	2.8521	0.0000	0.0000	2.8521
Strip Mall	91058.2	19.0648	0.0000	0.0000	19.0648
Total		**65.9994**	**0.0000**	**0.0000**	**65.9994**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant w/o Drive Thru	34816.8	7.2896	0.0000	0.0000	7.2896
General Light Industry	3476.55	0.7279	0.0000	0.0000	0.7279
General Office Building	12337.7	2.5831	0.0000	0.0000	2.5831
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Hardware/Paint Store	24099.1	5.0456	0.0000	0.0000	5.0456
High Turnover (Sit Down Restaurant)	111179	23.2775	0.0000	0.0000	23.2775
Parking Lot	24640	5.1589	0.0000	0.0000	5.1589
Racquet Club	13622.4	2.8521	0.0000	0.0000	2.8521
Strip Mall	91058.2	19.0648	0.0000	0.0000	19.0648
Total		**65.9994**	**0.0000**	**0.0000**	**65.9994**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1916	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2500e-003	2.2500e-003	1.0000e-005	0.0000	2.3800e-003
Unmitigated	0.1916	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2500e-003	2.2500e-003	1.0000e-005	0.0000	2.3800e-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	0.0129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2500e-003	2.2500e-003	1.0000e-005	0.0000	2.3800e-003
Total	**0.1916**	**1.0000e-005**	**1.1700e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.2500e-003**	**2.2500e-003**	**1.0000e-005**	**0.0000**	**2.3800e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1786					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2500e-003	2.2500e-003	1.0000e-005	0.0000	2.3800e-003
Total	**0.1916**	**1.0000e-005**	**1.1700e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.2500e-003**	**2.2500e-003**	**1.0000e-005**	**0.0000**	**2.3800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.0347	0.1163	2.7500e-003	33.3292
Unmitigated	30.0347	0.1163	2.7500e-003	33.3292

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive Thru	0.628315 / 0.0401052	0.9405	0.0205	4.8000e-004	1.5204
General Light Industry	0.171125 / 0	0.2482	5.5800e-003	1.3000e-004	0.4061
General Office Building	0.0568748 / 0.0348588	0.1080	1.8500e-003	4.0000e-005	0.1605
Golf Course	0 / 33.2714	24.3810	0.0000	0.0000	24.3810
Hardware/Paint Store	0.116294 / 0.0712769	0.2209	3.7900e-003	9.0000e-005	0.3282
High Turnover (Sit Down Restaurant)	1.98208 / 0.126515	2.9670	0.0646	1.5300e-003	4.7961
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.170332 / 0.104397	0.3235	5.5500e-003	1.3000e-004	0.4807
Strip Mall	0.445176 / 0.27285	0.8455	0.0145	3.4000e-004	1.2563
Total		**30.0347**	**0.1163**	**2.7400e-003**	**33.3292**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive Thru	0.628315 / 0.0401052	0.9405	0.0205	4.8000e-004	1.5204
General Light Industry	0.171125 / 0	0.2482	5.5800e-003	1.3000e-004	0.4061
General Office Building	0.0568748 / 0.0348588	0.1080	1.8500e-003	4.0000e-005	0.1605
Golf Course	0 / 33.2714	24.3810	0.0000	0.0000	24.3810
Hardware/Paint Store	0.116294 / 0.0712769	0.2209	3.7900e-003	9.0000e-005	0.3282
High Turnover (Sit Down Restaurant)	1.98208 / 0.126515	2.9670	0.0646	1.5300e-003	4.7961
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.170332 / 0.104397	0.3235	5.5500e-003	1.3000e-004	0.4807
Strip Mall	0.445176 / 0.27285	0.8455	0.0145	3.4000e-004	1.2563
Total		**30.0347**	**0.1163**	**2.7400e-003**	**33.3292**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	29.1170	1.7208	0.0000	65.2531
Mitigated	29.1170	1.7208	0.0000	65.2531

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant w/o Drive Thru	23.84	4.8393	0.2860	0.0000	10.8452
General Light Industry	0.92	0.1868	0.0110	0.0000	0.4185
General Office Building	0.3	0.0609	3.6000e-003	0.0000	0.1365
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
Hardware/Paint Store	17.41	3.5341	0.2089	0.0000	7.9201
High Turnover (Sit Down Restaurant)	77.71	15.7744	0.9322	0.0000	35.3515
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	16.42	3.3331	0.1970	0.0000	7.4697
Strip Mall	6.31	1.2809	0.0757	0.0000	2.8705
Total		**29.1170**	**1.7208**	**0.0000**	**65.2531**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant w/o Drive Thru	23.84	4.8393	0.2860	0.0000	10.8452
General Light Industry	0.92	0.1868	0.0110	0.0000	0.4185
General Office Building	0.3	0.0609	3.6000e-003	0.0000	0.1365
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
Hardware/Paint Store	17.41	3.5341	0.2089	0.0000	7.9201
High Turnover (Sit Down Restaurant)	77.71	15.7744	0.9322	0.0000	35.3515
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	16.42	3.3331	0.1970	0.0000	7.4697
Strip Mall	6.31	1.2809	0.0757	0.0000	2.8705
Total		**29.1170**	**1.7208**	**0.0000**	**65.2531**

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Existing

Lake Tahoe Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.00	1000sqft	0.02	999.00	0
General Light Industry	0.74	1000sqft	0.02	735.00	0
Parking Lot	70.00	Space	0.63	28,000.00	0
Fast Food Restaurant w/o Drive Thru	1.34	1000sqft	0.03	1,335.00	0
Golf Course	4.00	Hole	0.80	0.00	0
High Turnover (Sit Down Restaurant)	4.26	1000sqft	0.10	4,263.00	0
Racquet Club	2.88	1000sqft	0.07	2,880.00	0
Hardware/Paint Store	1.57	1000sqft	0.04	1,571.00	0
Strip Mall	5.94	1000sqft	0.14	5,936.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	461.58	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CEC for Liberty Utility in 2013.

Land Use - Land uses based on estimates. Strip mall land use includes furniture store, hair salon, and specialty retail center. Restaurant includes kitchen sqft. Fast food includes coffee shop.

Construction Phase - No construction under existing.

Trips and VMT - 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc).

Architectural Coating -

Vehicle Trips - Racquet Club represents Golf Course Clubhouse and may overestimate trips somewhat.

Area Coating - Arch Coating sqft calculated separately. Assumes total of 17,719 sqft of non-res space and 70 parking spots to be striped. 26,579 int. 10,484 ext.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use - Racquet Club represents Golf Course Clubhouse

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	9280	10484
tblAreaCoating	Area_Nonresidential_Interior	27839	26579
tblConstructionPhase	NumDays	200.00	1.00
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	1,000.00	999.00
tblLandUse	LandUseSquareFeet	740.00	735.00
tblLandUse	LandUseSquareFeet	1,340.00	1,335.00
tblLandUse	LandUseSquareFeet	4,260.00	4,263.00
tblLandUse	LandUseSquareFeet	1,570.00	1,571.00
tblLandUse	LandUseSquareFeet	5,940.00	5,936.00
tblLandUse	LotAcreage	27.92	0.80
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	0	461.58
tblProjectCharacteristics	OperationalYear	2014	2018
tblSolidWaste	SolidWasteGenerationRate	15.44	23.84
tblSolidWaste	SolidWasteGenerationRate	0.93	0.30
tblSolidWaste	SolidWasteGenerationRate	50.69	77.71
tblSolidWaste	SolidWasteGenerationRate	6.24	6.31
tblTripsAndVMT	VendorTripLength	7.30	35.00
tblTripsAndVMT	VendorTripNumber	7.00	10.00
tblTripsAndVMT	WorkerTripNumber	18.00	26.00
tblWater	IndoorWaterUseRate	406,735.17	628,314.78
tblWater	IndoorWaterUseRate	177,733.75	56,874.80
tblWater	IndoorWaterUseRate	1,293,053.61	1,982,075.14
tblWater	IndoorWaterUseRate	439,990.78	445,175.85
tblWater	OutdoorWaterUseRate	25,961.82	40,105.20
tblWater	OutdoorWaterUseRate	108,933.59	34,858.75
tblWater	OutdoorWaterUseRate	82,535.34	126,515.43
tblWater	OutdoorWaterUseRate	269,671.77	272,849.72

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	3.4807	30.0022	22.2639	0.0399	0.5288	1.8375	2.3663	0.1462	1.7248	1.8710	0.0000	3,880.3702	3,880.3702	0.6694	0.0000	3,894.4267
Total	**3.4807**	**30.0022**	**22.2639**	**0.0399**	**0.5288**	**1.8375**	**2.3663**	**0.1462**	**1.7248**	**1.8710**	**0.0000**	**3,880.3702**	**3,880.3702**	**0.6694**	**0.0000**	**3,894.4267**

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	3.4807	30.0022	22.2639	0.0399	0.5288	1.8375	2.3663	0.1462	1.7248	1.8710	0.0000	3,880.3702	3,880.3702	0.6694	0.0000	3,894.4267
Total	**3.4807**	**30.0022**	**22.2639**	**0.0399**	**0.5288**	**1.8375**	**2.3663**	**0.1462**	**1.7248**	**1.8710**	**0.0000**	**3,880.3702**	**3,880.3702**	**0.6694**	**0.0000**	**3,894.4267**

	ROG	NOx	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**

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	1.0499	9.0000e-005	9.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0201	0.0201	6.0000e-005		0.0212
Energy	0.0221	0.2013	0.1691	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.5554	241.5554	4.6300e-003	4.4300e-003	243.0254
Mobile	9.3200	15.0618	78.7081	0.1158	7.2596	0.1785	7.4381	1.9414	0.1645	2.1059		9,559.4937	9,559.4937	0.5379		9,570.7905
Total	**10.3920**	**15.2632**	**78.8867**	**0.1170**	**7.2596**	**0.1938**	**7.4535**	**1.9414**	**0.1798**	**2.1212**		**9,801.0691**	**9,801.0691**	**0.5426**	**4.4300e-003**	**9,813.8371**

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	1.0499	9.0000e-005	9.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0201	0.0201	6.0000e-005		0.0212
Energy	0.0221	0.2013	0.1691	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.5554	241.5554	4.6300e-003	4.4300e-003	243.0254
Mobile	9.3200	15.0618	78.7081	0.1158	7.2596	0.1785	7.4381	1.9414	0.1645	2.1059		9,559.4937	9,559.4937	0.5379		9,570.7905
Total	**10.3920**	**15.2632**	**78.8867**	**0.1170**	**7.2596**	**0.1938**	**7.4535**	**1.9414**	**0.1798**	**2.1212**		**9,801.0691**	**9,801.0691**	**0.5426**	**4.4300e-003**	**9,813.8371**

	ROG	NOx	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	Building Construction	Building Construction	1/1/2017	1/2/2017	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	26.00	10.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2017

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2651	3.4734	2.5485	0.0105	0.3152	0.0540	0.3693	0.0896	0.0497	0.1393		1,037.5024	1,037.5024	6.4700e-003		1,037.6383
Worker	0.1132	0.1231	1.5862	2.5800e-003	0.2136	2.2800e-003	0.2159	0.0567	2.1000e-003	0.0588		203.0625	203.0625	0.0132		203.3394
Total	**0.3783**	**3.5965**	**4.1347**	**0.0131**	**0.5288**	**0.0563**	**0.5851**	**0.1462**	**0.0518**	**0.1980**		**1,240.5649**	**1,240.5649**	**0.0197**		**1,240.9777**

3.2 Building Construction - 2017

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2651	3.4734	2.5485	0.0105	0.3152	0.0540	0.3693	0.0896	0.0497	0.1393		1,037.5024	1,037.5024	6.4700e-003		1,037.6383
Worker	0.1132	0.1231	1.5862	2.5800e-003	0.2136	2.2800e-003	0.2159	0.0567	2.1000e-003	0.0588		203.0625	203.0625	0.0132		203.3394
Total	**0.3783**	**3.5965**	**4.1347**	**0.0131**	**0.5288**	**0.0563**	**0.5851**	**0.1462**	**0.0518**	**0.1980**		**1,240.5649**	**1,240.5649**	**0.0197**		**1,240.9777**

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	9.3200	15.0618	78.7081	0.1158	7.2596	0.1785	7.4381	1.9414	0.1645	2.1059		9,559.4937	9,559.4937	0.5379		9,570.7905
Unmitigated	9.3200	15.0618	78.7081	0.1158	7.2596	0.1785	7.4381	1.9414	0.1645	2.1059		9,559.4937	9,559.4937	0.5379		9,570.7905

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	5.16	0.98	0.50	11,373	11,373
Fast Food Restaurant w/o Drive Thru	959.44	932.64	670.00	1,474,311	1,474,311
General Office Building	11.01	2.37	0.98	19,937	19,937
Golf Course	142.96	162.52	158.12	267,333	267,333
Hardware/Paint Store	80.53	129.56	107.78	132,999	132,999
High Turnover (Sit Down Restaurant)	541.66	674.66	561.64	653,824	653,824
Parking Lot	0.00	0.00	0.00		
Racquet Club	94.84	60.11	76.98	148,538	148,538
Strip Mall	263.26	249.72	121.35	371,231	371,231
Total	2,098.85	2,212.54	1,697.36	3,079,546	3,079,546

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Hardware/Paint Store	9.50	7.30	7.30	13.60	67.40	19.00	45	29	26
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0221	0.2013	0.1691	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.5554	241.5554	4.6300e-003	4.4300e-003	243.0254
NaturalGas Unmitigated	0.0221	0.2013	0.1691	1.2100e-003		0.0153	0.0153		0.0153	0.0153		241.5554	241.5554	4.6300e-003	4.4300e-003	243.0254

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	56.2724	6.1000e-004	5.5200e-003	4.6300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		6.6203	6.6203	1.3000e-004	1.2000e-004	6.6606
Golf Course	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
Hardware/Paint Store	32.6682	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		3.8433	3.8433	7.0000e-005	7.0000e-005	3.8667
High Turnover (Sit Down Restaurant)	1374.09	0.0148	0.1347	0.1132	8.1000e-004		0.0102	0.0102		0.0102	0.0102		161.6574	161.6574	3.1000e-003	2.9600e-003	162.6412
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
Racquet Club	29.0367	3.1000e-004	2.8500e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.4161	3.4161	7.0000e-005	6.0000e-005	3.4369
Strip Mall	123.436	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004		14.5219	14.5219	2.8000e-004	2.7000e-004	14.6103
Fast Food Restaurant w/o Drive Thru	430.309	4.6400e-003	0.0422	0.0354	2.5000e-004		3.2100e-003	3.2100e-003		3.2100e-003	3.2100e-003		50.6246	50.6246	9.7000e-004	9.3000e-004	50.9327
General Light Industry	7.41041	8.0000e-005	7.3000e-004	6.1000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.8718	0.8718	2.0000e-005	2.0000e-005	0.8771
Total		**0.0221**	**0.2013**	**0.1691**	**1.2000e-003**		**0.0153**	**0.0153**		**0.0153**	**0.0153**		**241.5554**	**241.5554**	**4.6400e-003**	**4.4300e-003**	**243.0254**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0562724	6.1000e-004	5.5200e-003	4.6300e-003	3.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		6.6203	6.6203	1.3000e-004	1.2000e-004	6.6606
Golf Course	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
Hardware/Paint Store	0.0326682	3.5000e-004	3.2000e-003	2.6900e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004		3.8433	3.8433	7.0000e-005	7.0000e-005	3.8667
High Turnover (Sit Down Restaurant)	1.37409	0.0148	0.1347	0.1132	8.1000e-004		0.0102	0.0102		0.0102	0.0102		161.6574	161.6574	3.1000e-003	2.9600e-003	162.6412
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
Racquet Club	0.0290367	3.1000e-004	2.8500e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.4161	3.4161	7.0000e-005	6.0000e-005	3.4369
Strip Mall	0.123436	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004		14.5219	14.5219	2.8000e-004	2.7000e-004	14.6103
Fast Food Restaurant w/o Drive Thru	0.430309	4.6400e-003	0.0422	0.0354	2.5000e-004		3.2100e-003	3.2100e-003		3.2100e-003	3.2100e-003		50.6246	50.6246	9.7000e-004	9.3000e-004	50.9327
General Light Industry	0.00741041	8.0000e-005	7.3000e-004	6.1000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.8718	0.8718	2.0000e-005	2.0000e-005	0.8771
Total		**0.0221**	**0.2013**	**0.1691**	**1.2000e-003**		**0.0153**	**0.0153**		**0.0153**	**0.0153**		**241.5554**	**241.5554**	**4.6400e-003**	**4.4300e-003**	**243.0254**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0499	9.0000e-005	9.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0201	0.0201	6.0000e-005		0.0212
Unmitigated	1.0499	9.0000e-005	9.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0201	0.0201	6.0000e-005		0.0212

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	0.0706					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.1000e-004	9.0000e-005	9.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0201	0.0201	6.0000e-005		0.0212
Total	**1.0499**	**9.0000e-005**	**9.4900e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0201**	**0.0201**	**6.0000e-005**		**0.0212**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0706					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.1000e-004	9.0000e-005	9.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0201	0.0201	6.0000e-005		0.0212
Total	**1.0499**	**9.0000e-005**	**9.4900e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0201**	**0.0201**	**6.0000e-005**		**0.0212**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Alternative 1

Lake Tahoe Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.45	1000sqft	0.06	2,446.00	0
Unrefrigerated Warehouse-No Rail	2.97	1000sqft	0.07	2,968.00	0
Parking Lot	131.00	Space	0.42	52,400.00	0
Golf Course	4.00	Hole	0.80	0.00	0
High Turnover (Sit Down Restaurant)	4.71	1000sqft	0.11	4,707.00	0
Hotel	118.00	Room	1.50	79,879.00	0
Racquet Club	6.74	1000sqft	0.80	6,738.00	0
Recreational Swimming Pool	6.03	1000sqft	0.14	6,031.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	414	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CPUC for Liberty Utility in 2013 assuming a 21.7% renewable portfolio and scaling to 2018 based on RPS goal of 33% renewables by 2020.

Land Use - Land uses based on estimates. Restaurant includes kitchen sqft.

Construction Phase - Building construction duration would pause through winter months.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Appx 12 miles to Tahoe Truckee Sierra Disposal Facility. 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc). Max of 120 workers per day.

Demolition - 6081 CY of material to be demolished and hauled. Assume 500 lbs/CY.

Grading - 3.9 acres is total project site

Architectural Coating - Arch Coating sqft calculated separately. Assumes total of 104007 sqft of non-res space and 131 parking spots to be striped. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Vehicle Trips - Racquet Club represent Golf Course Clubhouse and may overestimate trips somewhat.

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Area Coating - Arch Coating sqft calculated separately. Assumes total of 104,007 sqft of non-res space and 131 parking spots to be striped. 156,011 sf int. 55,043 sf ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use - Racquet Club represent Golf Course Clubhouse.

Construction Off-road Equipment Mitigation - watering required under PCAPCD Rule 228. Applying Tier 4 mitigation to reduce NOX emissions.

Mobile Land Use Mitigation -

Area Mitigation - PCAPCD Rule 218 specifies that low-solids coatings should have a max VOC content of 120 g/L. Reducing further to meet PCAPCD cumulative thresholds.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	52,171.00	55,043.00

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	156,512.00	156,011.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	52171	55043
tblAreaCoating	Area_Nonresidential_Interior	156512	156011
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	15
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	15
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblGrading	AcresOfGrading	4.00	3.90
tblGrading	AcresOfGrading	0.00	3.90
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	2,450.00	2,446.00
tblLandUse	LandUseSquareFeet	2,970.00	2,968.00
tblLandUse	LandUseSquareFeet	4,710.00	4,707.00
tblLandUse	LandUseSquareFeet	171,336.00	79,879.00
tblLandUse	LandUseSquareFeet	6,740.00	6,738.00
tblLandUse	LandUseSquareFeet	6,030.00	6,031.00
tblLandUse	LotAcreage	1.18	0.42
tblLandUse	LotAcreage	27.92	0.80
tblLandUse	LotAcreage	3.93	1.50
tblLandUse	LotAcreage	0.15	0.80
tblProjectCharacteristics	CO2IntensityFactor	0	414
tblProjectCharacteristics	OperationalYear	2014	2018

tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	VendorTripLength	7.30	35.00
tblTripsAndVMT	WorkerTripNumber	65.00	60.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4145	3.7011	3.1517	5.6600e-003	0.2016	0.1971	0.3986	0.0719	0.1844	0.2563	0.0000	497.8612	497.8612	0.0692	0.0000	499.3146
2018	0.8639	1.1424	1.0453	2.0800e-003	0.0411	0.0600	0.1012	0.0114	0.0563	0.0677	0.0000	179.8464	179.8464	0.0244	0.0000	180.3586
Total	**1.2783**	**4.8435**	**4.1970**	**7.7400e-003**	**0.2427**	**0.2571**	**0.4998**	**0.0833**	**0.2407**	**0.3240**	**0.0000**	**677.7076**	**677.7076**	**0.0936**	**0.0000**	**679.6731**

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	0.1187	1.0088	4.4673	5.6600e-003	0.1521	0.0158	0.1679	0.0493	0.0149	0.0642	0.0000	503.0523	503.0523	0.0696	0.0000	504.5145
2018	0.7751	0.3406	1.6335	2.0800e-003	0.0411	5.5100e-003	0.0466	0.0114	5.1800e-003	0.0166	0.0000	181.8047	181.8047	0.0245	0.0000	182.3199
Total	**0.8937**	**1.3494**	**6.1008**	**7.7400e-003**	**0.1932**	**0.0213**	**0.2146**	**0.0608**	**0.0200**	**0.0808**	**0.0000**	**684.8570**	**684.8570**	**0.0942**	**0.0000**	**686.8344**

	ROG	NOx	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	**30.09**	**72.14**	**-45.36**	**0.00**	**20.38**	**91.70**	**57.07**	**27.08**	**91.68**	**75.07**	**0.00**	**-1.05**	**-1.05**	**-0.60**	**0.00**	**-1.05**

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	0.6797	3.0000e-005	3.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7600e-003	6.7600e-003	2.0000e-005	0.0000	7.1500e-003
Energy	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	294.7189	294.7189	2.4300e-003	2.3200e-003	295.4900
Mobile	1.7698	2.8983	17.1162	0.0215	1.2953	0.0329	1.3282	0.3477	0.0303	0.3779	0.0000	1,606.3878	1,606.3878	0.0885	0.0000	1,608.2465
Waste						0.0000	0.0000		0.0000	0.0000	40.4054	0.0000	40.4054	2.3879	0.0000	90.5510
Water						0.0000	0.0000		0.0000	0.0000	1.9988	29.0280	31.0269	0.2053	4.8500e-003	36.8409
Total	**2.4623**	**3.0147**	**17.2175**	**0.0222**	**1.2953**	**0.0417**	**1.3370**	**0.3477**	**0.0391**	**0.3868**	**42.4042**	**1,930.1415**	**1,972.5457**	**2.6842**	**7.1700e-003**	**2,031.1355**

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	0.6137	3.0000e-005	3.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7600e-003	6.7600e-003	2.0000e-005	0.0000	7.1500e-003
Energy	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	294.7189	294.7189	2.4300e-003	2.3200e-003	295.4900
Mobile	1.7698	2.8983	17.1162	0.0215	1.2953	0.0329	1.3282	0.3477	0.0303	0.3779	0.0000	1,606.3878	1,606.3878	0.0885	0.0000	1,608.2465
Waste						0.0000	0.0000		0.0000	0.0000	40.4054	0.0000	40.4054	2.3879	0.0000	90.5510
Water						0.0000	0.0000		0.0000	0.0000	1.9988	29.0280	31.0269	0.2053	4.8500e-003	36.8409
Total	**2.3963**	**3.0147**	**17.2175**	**0.0222**	**1.2953**	**0.0417**	**1.3370**	**0.3477**	**0.0391**	**0.3868**	**42.4042**	**1,930.1415**	**1,972.5457**	**2.6842**	**7.1700e-003**	**2,031.1355**

	ROG	NOx	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	**2.68**	**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	3/27/2017	4/21/2017	5	20	
2	Site Preparation	Site Preparation	4/22/2017	4/28/2017	5	5	
3	Grading	Grading	4/29/2017	5/10/2017	5	8	
4	Building Construction	Building Construction	5/11/2017	3/28/2018	5	230	
5	Paving	Paving	3/29/2018	4/23/2018	5	18	
6	Architectural Coating	Architectural Coating	4/24/2018	5/17/2018	5	18	

Acres of Grading (Site Preparation Phase): 3.9

Acres of Grading (Grading Phase): 3.9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 156,011; Non-Residential Outdoor: 55,043 (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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	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	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	60.00	25.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0165	0.0000	0.0165	2.5000e-003	0.0000	2.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8292
Total	**0.0405**	**0.4270**	**0.3389**	**4.0000e-004**	**0.0165**	**0.0213**	**0.0378**	**2.5000e-003**	**0.0198**	**0.0223**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8292**

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	3.0200e-003	0.0259	0.0434	7.0000e-005	2.6400e-003	2.9000e-004	2.9300e-003	6.9000e-004	2.6000e-004	9.6000e-004	0.0000	6.0439	6.0439	4.0000e-005	0.0000	6.0448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	1.6200e-003	0.0207	3.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.1306	2.1306	1.4000e-004	0.0000	2.1335
Total	**4.4500e-003**	**0.0275**	**0.0642**	**1.0000e-004**	**7.0400e-003**	**3.2000e-004**	**7.3500e-003**	**1.8200e-003**	**2.8000e-004**	**2.1100e-003**	**0.0000**	**8.1745**	**8.1745**	**1.8000e-004**	**0.0000**	**8.1783**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.4300e-003	0.0000	7.4300e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7400e-003	0.0205	0.2383	4.0000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291
Total	**4.7400e-003**	**0.0205**	**0.2383**	**4.0000e-004**	**7.4300e-003**	**6.3000e-004**	**8.0600e-003**	**1.1300e-003**	**6.3000e-004**	**1.7600e-003**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8291**

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	3.0200e-003	0.0259	0.0434	7.0000e-005	2.6400e-003	2.9000e-004	2.9300e-003	6.9000e-004	2.6000e-004	9.6000e-004	0.0000	6.0439	6.0439	4.0000e-005	0.0000	6.0448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	1.6200e-003	0.0207	3.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.1306	2.1306	1.4000e-004	0.0000	2.1335
Total	**4.4500e-003**	**0.0275**	**0.0642**	**1.0000e-004**	**7.0400e-003**	**3.2000e-004**	**7.3500e-003**	**1.8200e-003**	**2.8000e-004**	**2.1100e-003**	**0.0000**	**8.1745**	**8.1745**	**1.8000e-004**	**0.0000**	**8.1783**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0472	0.0000	0.0472	0.0251	0.0000	0.0251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-004		6.8900e-003	6.8900e-003		6.3300e-003	6.3300e-003	0.0000	9.0789	9.0789	2.7800e-003	0.0000	9.1373
Total	**0.0121**	**0.1294**	**0.0985**	**1.0000e-004**	**0.0472**	**6.8900e-003**	**0.0541**	**0.0251**	**6.3300e-003**	**0.0314**	**0.0000**	**9.0789**	**9.0789**	**2.7800e-003**	**0.0000**	**9.1373**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	4.9000e-004	6.2200e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.6392	0.6392	4.0000e-005	0.0000	0.6401
Total	**4.3000e-004**	**4.9000e-004**	**6.2200e-003**	**1.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**0.6392**	**0.6392**	**4.0000e-005**	**0.0000**	**0.6401**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0213	0.0000	0.0213	0.0113	0.0000	0.0113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1900e-003	5.1500e-003	0.0531	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	9.0788	9.0788	2.7800e-003	0.0000	9.1373
Total	**1.1900e-003**	**5.1500e-003**	**0.0531**	**1.0000e-004**	**0.0213**	**1.6000e-004**	**0.0214**	**0.0113**	**1.6000e-004**	**0.0114**	**0.0000**	**9.0788**	**9.0788**	**2.7800e-003**	**0.0000**	**9.1373**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	4.9000e-004	6.2200e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.6392	0.6392	4.0000e-005	0.0000	0.6401
Total	**4.3000e-004**	**4.9000e-004**	**6.2200e-003**	**1.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**0.6392**	**0.6392**	**4.0000e-005**	**0.0000**	**0.6401**

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-004		8.1600e-003	8.1600e-003		7.5000e-003	7.5000e-003	0.0000	11.0447	11.0447	3.3800e-003	0.0000	11.1157
Total	**0.0138**	**0.1439**	**0.1015**	**1.2000e-004**	**0.0262**	**8.1600e-003**	**0.0343**	**0.0135**	**7.5000e-003**	**0.0210**	**0.0000**	**11.0447**	**11.0447**	**3.3800e-003**	**0.0000**	**11.1157**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	3.2000e-004	4.1400e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4261	0.4261	3.0000e-005	0.0000	0.4267
Total	**2.9000e-004**	**3.2000e-004**	**4.1400e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4261**	**0.4261**	**3.0000e-005**	**0.0000**	**0.4267**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0118	0.0000	0.0118	6.0600e-003	0.0000	6.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	6.2800e-003	0.0786	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	11.0447	11.0447	3.3800e-003	0.0000	11.1157
Total	**1.4500e-003**	**6.2800e-003**	**0.0786**	**1.2000e-004**	**0.0118**	**1.9000e-004**	**0.0120**	**6.0600e-003**	**1.9000e-004**	**6.2500e-003**	**0.0000**	**11.0447**	**11.0447**	**3.3800e-003**	**0.0000**	**11.1157**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	3.2000e-004	4.1400e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4261	0.4261	3.0000e-005	0.0000	0.4267
Total	**2.9000e-004**	**3.2000e-004**	**4.1400e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4261**	**0.4261**	**3.0000e-005**	**0.0000**	**0.4267**

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	0.2591	2.2049	1.5138	2.2400e-003		0.1487	0.1487		0.1397	0.1397	0.0000	199.9651	199.9651	0.0492	0.0000	200.9986
Total	**0.2591**	**2.2049**	**1.5138**	**2.2400e-003**		**0.1487**	**0.1487**		**0.1397**	**0.1397**	**0.0000**	**199.9651**	**199.9651**	**0.0492**	**0.0000**	**200.9986**

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	0.0000
Vendor	0.0600	0.7406	0.6784	2.1900e-003	0.0634	0.0113	0.0747	0.0181	0.0104	0.0285	0.0000	196.3338	196.3338	1.2300e-003	0.0000	196.3596
Worker	0.0239	0.0270	0.3461	5.0000e-004	0.0394	4.4000e-004	0.0398	0.0105	4.0000e-004	0.0109	0.0000	35.5808	35.5808	2.3000e-003	0.0000	35.6292
Total	**0.0838**	**0.7676**	**1.0245**	**2.6900e-003**	**0.1028**	**0.0117**	**0.1145**	**0.0286**	**0.0108**	**0.0394**	**0.0000**	**231.9146**	**231.9146**	**3.5300e-003**	**0.0000**	**231.9888**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0223	0.1809	2.9983	2.2400e-003		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	205.1562	205.1562	0.0496	0.0000	206.1986
Total	**0.0223**	**0.1809**	**2.9983**	**2.2400e-003**		**2.7800e-003**	**2.7800e-003**		**2.7800e-003**	**2.7800e-003**	**0.0000**	**205.1562**	**205.1562**	**0.0496**	**0.0000**	**206.1986**

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	0.0000
Vendor	0.0600	0.7406	0.6784	2.1900e-003	0.0634	0.0113	0.0747	0.0181	0.0104	0.0285	0.0000	196.3338	196.3338	1.2300e-003	0.0000	196.3596
Worker	0.0239	0.0270	0.3461	5.0000e-004	0.0394	4.4000e-004	0.0398	0.0105	4.0000e-004	0.0109	0.0000	35.5808	35.5808	2.3000e-003	0.0000	35.6292
Total	**0.0838**	**0.7676**	**1.0245**	**2.6900e-003**	**0.1028**	**0.0117**	**0.1145**	**0.0286**	**0.0108**	**0.0394**	**0.0000**	**231.9146**	**231.9146**	**3.5300e-003**	**0.0000**	**231.9888**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0841	0.7327	0.5523	8.4000e-004		0.0471	0.0471		0.0443	0.0443	0.0000	74.5825	74.5825	0.0183	0.0000	74.9657
Total	**0.0841**	**0.7327**	**0.5523**	**8.4000e-004**		**0.0471**	**0.0471**		**0.0443**	**0.0443**	**0.0000**	**74.5825**	**74.5825**	**0.0183**	**0.0000**	**74.9657**

3.5 Building Construction - 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	0.0000
Vendor	0.0212	0.2522	0.2357	8.3000e-004	0.0239	3.9900e-003	0.0279	6.8400e-003	3.6700e-003	0.0105	0.0000	72.9523	72.9523	4.5000e-004	0.0000	72.9617
Worker	7.7700e-003	9.1800e-003	0.1125	1.9000e-004	0.0149	1.6000e-004	0.0150	3.9500e-003	1.5000e-004	4.1000e-003	0.0000	12.9195	12.9195	7.9000e-004	0.0000	12.9360
Total	**0.0290**	**0.2613**	**0.3483**	**1.0200e-003**	**0.0388**	**4.1500e-003**	**0.0429**	**0.0108**	**3.8200e-003**	**0.0146**	**0.0000**	**85.8717**	**85.8717**	**1.2400e-003**	**0.0000**	**85.8977**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.4000e-003	0.0682	1.1311	8.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	76.5408	76.5408	0.0184	0.0000	76.9271
Total	**8.4000e-003**	**0.0682**	**1.1311**	**8.4000e-004**		**1.0500e-003**	**1.0500e-003**		**1.0500e-003**	**1.0500e-003**	**0.0000**	**76.5408**	**76.5408**	**0.0184**	**0.0000**	**76.9271**

3.5 Building Construction - 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	0.0000
Vendor	0.0212	0.2522	0.2357	8.3000e-004	0.0239	3.9900e-003	0.0279	6.8400e-003	3.6700e-003	0.0105	0.0000	72.9523	72.9523	4.5000e-004	0.0000	72.9617
Worker	7.7700e-003	9.1800e-003	0.1125	1.9000e-004	0.0149	1.6000e-004	0.0150	3.9500e-003	1.5000e-004	4.1000e-003	0.0000	12.9195	12.9195	7.9000e-004	0.0000	12.9360
Total	**0.0290**	**0.2613**	**0.3483**	**1.0200e-003**	**0.0388**	**4.1500e-003**	**0.0429**	**0.0108**	**3.8200e-003**	**0.0146**	**0.0000**	**85.8717**	**85.8717**	**1.2400e-003**	**0.0000**	**85.8977**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.1289	0.1104	1.7000e-004		7.4500e-003	7.4500e-003		6.8700e-003	6.8700e-003	0.0000	15.0641	15.0641	4.5600e-003	0.0000	15.1599
Paving	5.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0132**	**0.1289**	**0.1104**	**1.7000e-004**		**7.4500e-003**	**7.4500e-003**		**6.8700e-003**	**6.8700e-003**	**0.0000**	**15.0641**	**15.0641**	**4.5600e-003**	**0.0000**	**15.1599**

3.6 Paving - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	8.7000e-004	0.0107	2.0000e-005	1.4200e-003	2.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2304	1.2304	7.0000e-005	0.0000	1.2320
Total	**7.4000e-004**	**8.7000e-004**	**0.0107**	**2.0000e-005**	**1.4200e-003**	**2.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2304**	**1.2304**	**7.0000e-005**	**0.0000**	**1.2320**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9400e-003	8.4300e-003	0.1199	1.7000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	15.0641	15.0641	4.5600e-003	0.0000	15.1599
Paving	5.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.4900e-003**	**8.4300e-003**	**0.1199**	**1.7000e-004**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**15.0641**	**15.0641**	**4.5600e-003**	**0.0000**	**15.1599**

3.6 Paving - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	8.7000e-004	0.0107	2.0000e-005	1.4200e-003	2.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2304	1.2304	7.0000e-005	0.0000	1.2320
Total	**7.4000e-004**	**8.7000e-004**	**0.0107**	**2.0000e-005**	**1.4200e-003**	**2.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2304**	**1.2304**	**7.0000e-005**	**0.0000**	**1.2320**

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	0.7337					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
Total	**0.7364**	**0.0181**	**0.0167**	**3.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.3500e-003**	**1.3500e-003**	**0.0000**	**2.2979**	**2.2979**	**2.2000e-004**	**0.0000**	**2.3025**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	5.7000e-004	6.9700e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7998	0.7998	5.0000e-005	0.0000	0.8008
Total	**4.8000e-004**	**5.7000e-004**	**6.9700e-003**	**1.0000e-005**	**9.2000e-004**	**1.0000e-005**	**9.3000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7998**	**0.7998**	**5.0000e-005**	**0.0000**	**0.8008**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7337					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	1.1600e-003	0.0165	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
Total	**0.7340**	**1.1600e-003**	**0.0165**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.2979**	**2.2979**	**2.2000e-004**	**0.0000**	**2.3025**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	5.7000e-004	6.9700e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7998	0.7998	5.0000e-005	0.0000	0.8008
Total	**4.8000e-004**	**5.7000e-004**	**6.9700e-003**	**1.0000e-005**	**9.2000e-004**	**1.0000e-005**	**9.3000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7998**	**0.7998**	**5.0000e-005**	**0.0000**	**0.8008**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7698	2.8983	17.1162	0.0215	1.2953	0.0329	1.3282	0.3477	0.0303	0.3779	0.0000	1,606.3878	1,606.3878	0.0885	0.0000	1,608.2465
Unmitigated	1.7698	2.8983	17.1162	0.0215	1.2953	0.0329	1.3282	0.3477	0.0303	0.3779	0.0000	1,606.3878	1,606.3878	0.0885	0.0000	1,608.2465

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	26.97	5.81	2.40	48,847	48,847
Golf Course	142.96	162.52	158.12	267,333	267,333
High Turnover (Sit Down Restaurant)	598.88	745.92	620.97	722,890	722,890
Hotel	964.06	966.42	702.10	1,761,187	1,761,187
Parking Lot	0.00	0.00	0.00		
Racquet Club	221.95	140.66	180.16	347,620	347,620
Recreational Swimming Pool	198.57	125.85	161.18	330,440	330,440
Unrefrigerated Warehouse-No Rail	7.69	7.69	7.69	22,458	22,458
Total	2,161.08	2,154.87	1,832.62	3,500,774	3,500,774

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
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
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	168.0215	168.0215	0.0000	0.0000	168.0215
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	168.0215	168.0215	0.0000	0.0000	168.0215
NaturalGas Mitigated	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.6974	126.6974	2.4300e-003	2.3200e-003	127.4685
NaturalGas Unmitigated	0.0128	0.1164	0.0978	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.6974	126.6974	2.4300e-003	2.3200e-003	127.4685

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					
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	553779	2.9900e-003	0.0272	0.0228	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	29.5517	29.5517	5.7000e-004	5.4000e-004	29.7316
Hotel	1.74536e+006	9.4100e-003	0.0856	0.0719	5.1000e-004		6.5000e-003	6.5000e-003		6.5000e-003	6.5000e-003	0.0000	93.1389	93.1389	1.7900e-003	1.7100e-003	93.7057
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	24795.8	1.3000e-004	1.2200e-003	1.0200e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3232	1.3232	3.0000e-005	2.0000e-005	1.3313
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	50289.8	2.7000e-004	2.4700e-003	2.0700e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.6837	2.6837	5.0000e-005	5.0000e-005	2.7000
Total		**0.0128**	**0.1164**	**0.0978**	**6.9000e-004**		**8.8400e-003**	**8.8400e-003**		**8.8400e-003**	**8.8400e-003**	**0.0000**	**126.6974**	**126.6974**	**2.4400e-003**	**2.3200e-003**	**127.4685**

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					
High Turnover (Sit Down Restaurant)	553779	2.9900e-003	0.0272	0.0228	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	29.5517	29.5517	5.7000e-004	5.4000e-004	29.7316
Hotel	1.74536e+006	9.4100e-003	0.0856	0.0719	5.1000e-004		6.5000e-003	6.5000e-003		6.5000e-003	6.5000e-003	0.0000	93.1389	93.1389	1.7900e-003	1.7100e-003	93.7057
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	24795.8	1.3000e-004	1.2200e-003	1.0200e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3232	1.3232	3.0000e-005	2.0000e-005	1.3313
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	50289.8	2.7000e-004	2.4700e-003	2.0700e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.6837	2.6837	5.0000e-005	5.0000e-005	2.7000
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0128**	**0.1164**	**0.0978**	**6.9000e-004**		**8.8400e-003**	**8.8400e-003**		**8.8400e-003**	**8.8400e-003**	**0.0000**	**126.6974**	**126.6974**	**2.4400e-003**	**2.3200e-003**	**127.4685**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	30208.1	5.6727	0.0000	0.0000	5.6727
Golf Course	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	122759	23.0525	0.0000	0.0000	23.0525
Hotel	663794	124.6521	0.0000	0.0000	124.6521
Parking Lot	46112	8.6593	0.0000	0.0000	8.6593
Racquet Club	31870.7	5.9849	0.0000	0.0000	5.9849
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**168.0215**	**0.0000**	**0.0000**	**168.0215**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	30208.1	5.6727	0.0000	0.0000	5.6727
Golf Course	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	122759	23.0525	0.0000	0.0000	23.0525
Hotel	663794	124.6521	0.0000	0.0000	124.6521
Parking Lot	46112	8.6593	0.0000	0.0000	8.6593
Racquet Club	31870.7	5.9849	0.0000	0.0000	5.9849
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**168.0215**	**0.0000**	**0.0000**	**168.0215**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6137	3.0000e-005	3.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7600e-003	6.7600e-003	2.0000e-005	0.0000	7.1500e-003
Unmitigated	0.6797	3.0000e-005	3.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7600e-003	6.7600e-003	2.0000e-005	0.0000	7.1500e-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	0.0734					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7600e-003	6.7600e-003	2.0000e-005	0.0000	7.1500e-003
Total	**0.6797**	**3.0000e-005**	**3.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.7600e-003**	**6.7600e-003**	**2.0000e-005**	**0.0000**	**7.1500e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7600e-003	6.7600e-003	2.0000e-005	0.0000	7.1500e-003
Total	**0.6137**	**3.0000e-005**	**3.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.7600e-003**	**6.7600e-003**	**2.0000e-005**	**0.0000**	**7.1500e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.0269	0.2053	4.8500e-003	36.8409
Unmitigated	31.0269	0.2053	4.8500e-003	36.8409

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.435448 / 0.266887	0.7560	0.0142	3.4000e-004	1.1579
Golf Course	0 / 33.2714	21.8678	0.0000	0.0000	21.8678
High Turnover (Sit Down Restaurant)	1.42964 / 0.0912539	1.9662	0.0466	1.1000e-003	3.2855
Hotel	2.99328 / 0.332587	4.2097	0.0975	2.3000e-003	6.9719
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.398625 / 0.244318	0.6921	0.0130	3.1000e-004	1.0600
Recreational Swimming Pool	0.356633 / 0.218582	0.6192	0.0116	2.7000e-004	0.9483
Unrefrigerated Warehouse-No Rail	0.686813 / 0	0.9158	0.0224	5.3000e-004	1.5496
Total		**31.0269**	**0.2053**	**4.8500e-003**	**36.8409**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.435448 / 0.266887	0.7560	0.0142	3.4000e-004	1.1579
Golf Course	0 / 33.2714	21.8678	0.0000	0.0000	21.8678
High Turnover (Sit Down Restaurant)	1.42964 / 0.0912539	1.9662	0.0466	1.1000e-003	3.2855
Hotel	2.99328 / 0.332587	4.2097	0.0975	2.3000e-003	6.9719
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.398625 / 0.244318	0.6921	0.0130	3.1000e-004	1.0600
Recreational Swimming Pool	0.356633 / 0.218582	0.6192	0.0116	2.7000e-004	0.9483
Unrefrigerated Warehouse-No Rail	0.686813 / 0	0.9158	0.0224	5.3000e-004	1.5496
Total		**31.0269**	**0.2053**	**4.8500e-003**	**36.8409**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	40.4054	2.3879	0.0000	90.5510
Unmitigated	40.4054	2.3879	0.0000	90.5510

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	2.28	0.4628	0.0274	0.0000	1.0372
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
High Turnover (Sit Down Restaurant)	56.05	11.3776	0.6724	0.0000	25.4980
Hotel	64.61	13.1153	0.7751	0.0000	29.3921
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	38.42	7.7989	0.4609	0.0000	17.4779
Recreational Swimming Pool	34.37	6.9768	0.4123	0.0000	15.6355
Unrefrigerated Warehouse-No Rail	2.79	0.5663	0.0335	0.0000	1.2692
Total		**40.4054**	**2.3879**	**0.0000**	**90.5510**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	2.28	0.4628	0.0274	0.0000	1.0372
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
High Turnover (Sit Down Restaurant)	56.05	11.3776	0.6724	0.0000	25.4980
Hotel	64.61	13.1153	0.7751	0.0000	29.3921
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	38.42	7.7989	0.4609	0.0000	17.4779
Recreational Swimming Pool	34.37	6.9768	0.4123	0.0000	15.6355
Unrefrigerated Warehouse-No Rail	2.79	0.5663	0.0335	0.0000	1.2692
Total		**40.4054**	**2.3879**	**0.0000**	**90.5510**

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Alternative 1

Lake Tahoe Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	2.45	1000sqft	0.06	2,446.00	0
Unrefrigerated Warehouse-No Rail	2.97	1000sqft	0.07	2,968.00	0
Parking Lot	131.00	Space	0.42	52,400.00	0
Golf Course	4.00	Hole	0.80	0.00	0
High Turnover (Sit Down Restaurant)	4.71	1000sqft	0.11	4,707.00	0
Hotel	118.00	Room	1.50	79,879.00	0
Racquet Club	6.74	1000sqft	0.80	6,738.00	0
Recreational Swimming Pool	6.03	1000sqft	0.14	6,031.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	414	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CPUC for Liberty Utility in 2013 assuming a 21.7% renewable portfolio and scaling to 2018 based on RPS goal of 33% renewables by 2020.

Land Use - Land uses based on estimates. Restaurant includes kitchen sqft.

Construction Phase - Building construction duration would pause through winter months.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Appx 12 miles to Tahoe Truckee Sierra Disposal Facility. 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc). Max of 120 workers per day.

Demolition - 6081 CY of material to be demolished and hauled. Assume 500 lbs/CY.

Grading - 3.9 acres is total project site

Architectural Coating - Arch Coating sqft calculated separately. Assumes total of 104007 sqft of non-res space and 131 parking spots to be striped. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Vehicle Trips - Racquet Club represent Golf Course Clubhouse and may overestimate trips somewhat.

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Area Coating - Arch Coating sqft calculated separately. Assumes total of 104,007 sqft of non-res space and 131 parking spots to be striped. 156,011 sf int. 55,043 sf ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use - Racquet Club represent Golf Course Clubhouse.

Construction Off-road Equipment Mitigation - watering required under PCAPCD Rule 228. Applying Tier 4 mitigation to reduce NOX emissions.

Mobile Land Use Mitigation -

Area Mitigation - PCAPCD Rule 218 specifies that low-solids coatings should have a max VOC content of 120 g/L. Reducing further to meet PCAPCD cumulative thresholds.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	52,171.00	55,043.00

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	156,512.00	156,011.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	52171	55043
tblAreaCoating	Area_Nonresidential_Interior	156512	156011
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	15
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	15
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblGrading	AcresOfGrading	4.00	3.90
tblGrading	AcresOfGrading	0.00	3.90
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	2,450.00	2,446.00
tblLandUse	LandUseSquareFeet	2,970.00	2,968.00
tblLandUse	LandUseSquareFeet	4,710.00	4,707.00
tblLandUse	LandUseSquareFeet	171,336.00	79,879.00
tblLandUse	LandUseSquareFeet	6,740.00	6,738.00
tblLandUse	LandUseSquareFeet	6,030.00	6,031.00
tblLandUse	LotAcreage	1.18	0.42
tblLandUse	LotAcreage	27.92	0.80
tblLandUse	LotAcreage	3.93	1.50
tblLandUse	LotAcreage	0.15	0.80
tblProjectCharacteristics	CO2IntensityFactor	0	414
tblProjectCharacteristics	OperationalYear	2014	2018

tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	VendorTripLength	7.30	35.00
tblTripsAndVMT	WorkerTripNumber	65.00	60.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	4.9949	51.9239	41.5934	0.0590	19.4462	2.7574	22.2036	10.1615	2.5368	12.6983	0.0000	5,702.1671	5,702.1671	1.2448	0.0000	5,728.3078
2018	81.8673	31.3562	26.5112	0.0590	1.2812	1.6258	2.9069	0.3547	1.5257	1.8805	0.0000	5,615.7271	5,615.7271	0.6819	0.0000	5,630.0471
Total	**86.8623**	**83.2801**	**68.1045**	**0.1180**	**20.7274**	**4.3831**	**25.1105**	**10.5163**	**4.0625**	**14.5788**	**0.0000**	**11,317.8942**	**11,317.8942**	**1.9267**	**0.0000**	**11,358.3549**

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	1.1907	11.1338	45.9399	0.0590	9.0548	0.1736	9.1214	4.6505	0.1624	4.7169	0.0000	5,770.7009	5,770.7009	1.2448	0.0000	5,796.8416
2018	81.5984	10.2615	44.8865	0.0590	1.2812	0.1647	1.4459	0.3547	0.1542	0.5089	0.0000	5,684.2609	5,684.2609	0.6869	0.0000	5,698.6848
Total	**82.7891**	**21.3953**	**90.8264**	**0.1180**	**10.3360**	**0.3383**	**10.5673**	**5.0053**	**0.3166**	**5.2258**	**0.0000**	**11,454.9618**	**11,454.9618**	**1.9316**	**0.0000**	**11,495.5263**

	ROG	NOx	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	**4.69**	**74.31**	**-33.36**	**0.00**	**50.13**	**92.28**	**57.92**	**52.40**	**92.21**	**64.15**	**0.00**	**-1.21**	**-1.21**	**-0.26**	**0.00**	**-1.21**

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	3.7254	2.7000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0604	0.0604	1.7000e-004		0.0639
Energy	0.0702	0.6377	0.5357	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.2604	765.2604	0.0147	0.0140	769.9176
Mobile	9.6539	16.4026	84.5233	0.1286	8.1052	0.1969	8.3021	2.1676	0.1814	2.3490		10,620.7949	10,620.7949	0.5867		10,633.1151
Total	**13.4494**	**17.0406**	**85.0875**	**0.1325**	**8.1052**	**0.2455**	**8.3507**	**2.1676**	**0.2300**	**2.3976**		**11,386.1156**	**11,386.1156**	**0.6015**	**0.0140**	**11,403.0966**

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	3.3636	2.7000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0604	0.0604	1.7000e-004		0.0639
Energy	0.0702	0.6377	0.5357	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.2604	765.2604	0.0147	0.0140	769.9176
Mobile	9.6539	16.4026	84.5233	0.1286	8.1052	0.1969	8.3021	2.1676	0.1814	2.3490		10,620.7949	10,620.7949	0.5867		10,633.1151
Total	**13.0876**	**17.0406**	**85.0875**	**0.1325**	**8.1052**	**0.2455**	**8.3507**	**2.1676**	**0.2300**	**2.3976**		**11,386.1156**	**11,386.1156**	**0.6015**	**0.0140**	**11,403.0966**

	ROG	NOx	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	**2.69**	**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	3/27/2017	4/21/2017	5	20	
2	Site Preparation	Site Preparation	4/22/2017	4/28/2017	5	5	
3	Grading	Grading	4/29/2017	5/10/2017	5	8	
4	Building Construction	Building Construction	5/11/2017	3/28/2018	5	230	
5	Paving	Paving	3/29/2018	4/23/2018	5	18	
6	Architectural Coating	Architectural Coating	4/24/2018	5/17/2018	5	18	

Acres of Grading (Site Preparation Phase): 3.9

Acres of Grading (Grading Phase): 3.9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 156,011; Non-Residential Outdoor: 55,043 (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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	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	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	60.00	25.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6521	0.0000	1.6521	0.2502	0.0000	0.2502			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**1.6521**	**2.1252**	**3.7773**	**0.2502**	**1.9797**	**2.2299**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	0.2645	2.5327	2.9758	6.7500e-003	0.2759	0.0287	0.3046	0.0722	0.0264	0.0986		667.3271	667.3271	4.5000e-003		667.4216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1306	0.1421	1.8303	2.9800e-003	0.4606	2.6300e-003	0.4633	0.1179	2.4200e-003	0.1204		234.3029	234.3029	0.0152		234.6224
Total	**0.3951**	**2.6748**	**4.8061**	**9.7300e-003**	**0.7365**	**0.0313**	**0.7678**	**0.1901**	**0.0288**	**0.2189**		**901.6300**	**901.6300**	**0.0197**		**902.0439**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7435	0.0000	0.7435	0.1126	0.0000	0.1126			0.0000			0.0000
Off-Road	0.4739	2.0535	23.8257	0.0399		0.0632	0.0632		0.0632	0.0632	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**0.4739**	**2.0535**	**23.8257**	**0.0399**	**0.7435**	**0.0632**	**0.8066**	**0.1126**	**0.0632**	**0.1758**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	0.2645	2.5327	2.9758	6.7500e-003	0.2759	0.0287	0.3046	0.0722	0.0264	0.0986		667.3271	667.3271	4.5000e-003		667.4216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1306	0.1421	1.8303	2.9800e-003	0.4606	2.6300e-003	0.4633	0.1179	2.4200e-003	0.1204		234.3029	234.3029	0.0152		234.6224
Total	**0.3951**	**2.6748**	**4.8061**	**9.7300e-003**	**0.7365**	**0.0313**	**0.7678**	**0.1901**	**0.0288**	**0.2189**		**901.6300**	**901.6300**	**0.0197**		**902.0439**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.8935	0.0000	18.8935	10.0200	0.0000	10.0200			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**18.8935**	**2.7542**	**21.6477**	**10.0200**	**2.5339**	**12.5539**		**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1567	0.1705	2.1963	3.5800e-003	0.5528	3.1600e-003	0.5559	0.1415	2.9000e-003	0.1444		281.1635	281.1635	0.0183		281.5468
Total	**0.1567**	**0.1705**	**2.1963**	**3.5800e-003**	**0.5528**	**3.1600e-003**	**0.5559**	**0.1415**	**2.9000e-003**	**0.1444**		**281.1635**	**281.1635**	**0.0183**		**281.5468**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5021	0.0000	8.5021	4.5090	0.0000	4.5090			0.0000			0.0000
Off-Road	0.4757	2.0615	21.2415	0.0391		0.0634	0.0634		0.0634	0.0634	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**0.4757**	**2.0615**	**21.2415**	**0.0391**	**8.5021**	**0.0634**	**8.5655**	**4.5090**	**0.0634**	**4.5724**	**0.0000**	**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1567	0.1705	2.1963	3.5800e-003	0.5528	3.1600e-003	0.5559	0.1415	2.9000e-003	0.1444		281.1635	281.1635	0.0183		281.5468
Total	**0.1567**	**0.1705**	**2.1963**	**3.5800e-003**	**0.5528**	**3.1600e-003**	**0.5559**	**0.1415**	**2.9000e-003**	**0.1444**		**281.1635**	**281.1635**	**0.0183**		**281.5468**

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					6.5391	0.0000	6.5391	3.3661	0.0000	3.3661			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.6667	3,043.6667	0.9326		3,063.2507
Total	**3.4555**	**35.9825**	**25.3812**	**0.0297**	**6.5391**	**2.0388**	**8.5779**	**3.3661**	**1.8757**	**5.2418**		**3,043.6667**	**3,043.6667**	**0.9326**		**3,063.2507**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0653	0.0710	0.9151	1.4900e-003	0.1232	1.3200e-003	0.1245	0.0327	1.2100e-003	0.0339		117.1515	117.1515	7.6100e-003		117.3112
Total	**0.0653**	**0.0710**	**0.9151**	**1.4900e-003**	**0.1232**	**1.3200e-003**	**0.1245**	**0.0327**	**1.2100e-003**	**0.0339**		**117.1515**	**117.1515**	**7.6100e-003**		**117.3112**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9426	0.0000	2.9426	1.5147	0.0000	1.5147			0.0000			0.0000
Off-Road	0.3625	1.5709	19.6566	0.0297		0.0483	0.0483		0.0483	0.0483	0.0000	3,043.6667	3,043.6667	0.9326		3,063.2507
Total	**0.3625**	**1.5709**	**19.6566**	**0.0297**	**2.9426**	**0.0483**	**2.9909**	**1.5147**	**0.0483**	**1.5631**	**0.0000**	**3,043.6667**	**3,043.6667**	**0.9326**		**3,063.2507**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0653	0.0710	0.9151	1.4900e-003	0.1232	1.3200e-003	0.1245	0.0327	1.2100e-003	0.0339		117.1515	117.1515	7.6100e-003		117.3112
Total	**0.0653**	**0.0710**	**0.9151**	**1.4900e-003**	**0.1232**	**1.3200e-003**	**0.1245**	**0.0327**	**1.2100e-003**	**0.0339**		**117.1515**	**117.1515**	**7.6100e-003**		**117.3112**

3.5 Building Construction - 2017

Unmitigated Construction On-Site

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

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		0.0000
Vendor	0.6628	8.6835	6.3713	0.0262	0.7881	0.1351	0.9232	0.2239	0.1243	0.3482		2,593.7560	2,593.7560	0.0162		2,594.0959
Worker	0.2612	0.2841	3.6605	5.9600e-003	0.4929	5.2700e-003	0.4982	0.1307	4.8400e-003	0.1356		468.6058	468.6058	0.0304		469.2447
Total	**0.9240**	**8.9676**	**10.0318**	**0.0322**	**1.2810**	**0.1404**	**1.4213**	**0.3547**	**0.1291**	**0.4838**		**3,062.3618**	**3,062.3618**	**0.0466**		**3,063.3406**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2666	2.1662	35.9080	0.0268		0.0332	0.0332		0.0332	0.0332	0.0000	2,708.3391	2,708.3391	0.6553		2,722.0993
Total	**0.2666**	**2.1662**	**35.9080**	**0.0268**		**0.0332**	**0.0332**		**0.0332**	**0.0332**	**0.0000**	**2,708.3391**	**2,708.3391**	**0.6553**		**2,722.0993**

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		0.0000
Vendor	0.6628	8.6835	6.3713	0.0262	0.7881	0.1351	0.9232	0.2239	0.1243	0.3482		2,593.7560	2,593.7560	0.0162		2,594.0959
Worker	0.2612	0.2841	3.6605	5.9600e-003	0.4929	5.2700e-003	0.4982	0.1307	4.8400e-003	0.1356		468.6058	468.6058	0.0304		469.2447
Total	**0.9240**	**8.9676**	**10.0318**	**0.0322**	**1.2810**	**0.1404**	**1.4213**	**0.3547**	**0.1291**	**0.4838**		**3,062.3618**	**3,062.3618**	**0.0466**		**3,063.3406**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.5 Building Construction - 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		0.0000
Vendor	0.6230	7.8396	5.8034	0.0262	0.7883	0.1265	0.9148	0.2240	0.1163	0.3403		2,554.7525	2,554.7525	0.0157		2,555.0823
Worker	0.2266	0.2557	3.1751	5.9600e-003	0.4929	5.0200e-003	0.4979	0.1307	4.6300e-003	0.1354		451.0357	451.0357	0.0275		451.6131
Total	**0.8495**	**8.0953**	**8.9785**	**0.0322**	**1.2812**	**0.1315**	**1.4127**	**0.3547**	**0.1210**	**0.4757**		**3,005.7882**	**3,005.7882**	**0.0432**		**3,006.6954**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2666	2.1662	35.9080	0.0268		0.0332	0.0332		0.0332	0.0332	0.0000	2,678.4728	2,678.4728	0.6437		2,691.9893
Total	**0.2666**	**2.1662**	**35.9080**	**0.0268**		**0.0332**	**0.0332**		**0.0332**	**0.0332**	**0.0000**	**2,678.4728**	**2,678.4728**	**0.6437**		**2,691.9893**

3.5 Building Construction - 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		0.0000
Vendor	0.6230	7.8396	5.8034	0.0262	0.7883	0.1265	0.9148	0.2240	0.1163	0.3403		2,554.7525	2,554.7525	0.0157		2,555.0823
Worker	0.2266	0.2557	3.1751	5.9600e-003	0.4929	5.0200e-003	0.4979	0.1307	4.6300e-003	0.1354		451.0357	451.0357	0.0275		451.6131
Total	**0.8495**	**8.0953**	**8.9785**	**0.0322**	**1.2812**	**0.1315**	**1.4127**	**0.3547**	**0.1210**	**0.4757**		**3,005.7882**	**3,005.7882**	**0.0432**		**3,006.6954**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4671**	**14.3192**	**12.2631**	**0.0187**		**0.8272**	**0.8272**		**0.7628**	**0.7628**		**1,845.0348**	**1,845.0348**	**0.5587**		**1,856.7667**

3.6 Paving - 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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0755	0.0852	1.0584	1.9900e-003	0.1643	1.6700e-003	0.1660	0.0436	1.5400e-003	0.0451		150.3452	150.3452	9.1700e-003		150.5377
Total	**0.0755**	**0.0852**	**1.0584**	**1.9900e-003**	**0.1643**	**1.6700e-003**	**0.1660**	**0.0436**	**1.5400e-003**	**0.0451**		**150.3452**	**150.3452**	**9.1700e-003**		**150.5377**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2161	0.9363	13.3248	0.0187		0.0288	0.0288		0.0288	0.0288	0.0000	1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2772**	**0.9363**	**13.3248**	**0.0187**		**0.0288**	**0.0288**		**0.0288**	**0.0288**	**0.0000**	**1,845.0348**	**1,845.0348**	**0.5587**		**1,856.7667**

3.6 Paving - 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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0755	0.0852	1.0584	1.9900e-003	0.1643	1.6700e-003	0.1660	0.0436	1.5400e-003	0.0451		150.3452	150.3452	9.1700e-003		150.5377
Total	**0.0755**	**0.0852**	**1.0584**	**1.9900e-003**	**0.1643**	**1.6700e-003**	**0.1660**	**0.0436**	**1.5400e-003**	**0.0451**		**150.3452**	**150.3452**	**9.1700e-003**		**150.5377**

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	81.5196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**81.8182**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0491	0.0554	0.6879	1.2900e-003	0.1068	1.0900e-003	0.1079	0.0283	1.0000e-003	0.0293		97.7244	97.7244	5.9600e-003		97.8495
Total	**0.0491**	**0.0554**	**0.6879**	**1.2900e-003**	**0.1068**	**1.0900e-003**	**0.1079**	**0.0283**	**1.0000e-003**	**0.0293**		**97.7244**	**97.7244**	**5.9600e-003**		**97.8495**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	81.5196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**81.5493**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4485**	**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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0491	0.0554	0.6879	1.2900e-003	0.1068	1.0900e-003	0.1079	0.0283	1.0000e-003	0.0293		97.7244	97.7244	5.9600e-003		97.8495
Total	**0.0491**	**0.0554**	**0.6879**	**1.2900e-003**	**0.1068**	**1.0900e-003**	**0.1079**	**0.0283**	**1.0000e-003**	**0.0293**		**97.7244**	**97.7244**	**5.9600e-003**		**97.8495**

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	9.6539	16.4026	84.5233	0.1286	8.1052	0.1969	8.3021	2.1676	0.1814	2.3490		10,620.7949	10,620.7949	0.5867		10,633.1151
Unmitigated	9.6539	16.4026	84.5233	0.1286	8.1052	0.1969	8.3021	2.1676	0.1814	2.3490		10,620.7949	10,620.7949	0.5867		10,633.1151

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	26.97	5.81	2.40	48,847	48,847
Golf Course	142.96	162.52	158.12	267,333	267,333
High Turnover (Sit Down Restaurant)	598.88	745.92	620.97	722,890	722,890
Hotel	964.06	966.42	702.10	1,761,187	1,761,187
Parking Lot	0.00	0.00	0.00		
Racquet Club	221.95	140.66	180.16	347,620	347,620
Recreational Swimming Pool	198.57	125.85	161.18	330,440	330,440
Unrefrigerated Warehouse-No Rail	7.69	7.69	7.69	22,458	22,458
Total	2,161.08	2,154.87	1,832.62	3,500,774	3,500,774

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
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
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0702	0.6377	0.5357	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.2604	765.2604	0.0147	0.0140	769.9176
NaturalGas Unmitigated	0.0702	0.6377	0.5357	3.8300e-003		0.0485	0.0485		0.0485	0.0485		765.2604	765.2604	0.0147	0.0140	769.9176

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					
High Turnover (Sit Down Restaurant)	1517.2	0.0164	0.1488	0.1250	8.9000e-004		0.0113	0.0113		0.0113	0.0113		178.4943	178.4943	3.4200e-003	3.2700e-003	179.5806
Hotel	4781.8	0.0516	0.4688	0.3938	2.8100e-003		0.0356	0.0356		0.0356	0.0356		562.5644	562.5644	0.0108	0.0103	565.9881
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
Racquet Club	67.9338	7.3000e-004	6.6600e-003	5.5900e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9922	7.9922	1.5000e-004	1.5000e-004	8.0409
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	137.78	1.4900e-003	0.0135	0.0114	8.0000e-005		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003		16.2094	16.2094	3.1000e-004	3.0000e-004	16.3081
Golf Course	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		**0.0702**	**0.6377**	**0.5357**	**3.8200e-003**		**0.0485**	**0.0485**		**0.0485**	**0.0485**		**765.2604**	**765.2604**	**0.0147**	**0.0140**	**769.9176**

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					
High Turnover (Sit Down Restaurant)	1.5172	0.0164	0.1488	0.1250	8.9000e-004		0.0113	0.0113		0.0113	0.0113		178.4943	178.4943	3.4200e-003	3.2700e-003	179.5806
Hotel	4.7818	0.0516	0.4688	0.3938	2.8100e-003		0.0356	0.0356		0.0356	0.0356		562.5644	562.5644	0.0108	0.0103	565.9881
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
Racquet Club	0.0679338	7.3000e-004	6.6600e-003	5.5900e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9922	7.9922	1.5000e-004	1.5000e-004	8.0409
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.13778	1.4900e-003	0.0135	0.0114	8.0000e-005		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003		16.2094	16.2094	3.1000e-004	3.0000e-004	16.3081
Golf Course	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		**0.0702**	**0.6377**	**0.5357**	**3.8200e-003**		**0.0485**	**0.0485**		**0.0485**	**0.0485**		**765.2604**	**765.2604**	**0.0147**	**0.0140**	**769.9176**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3636	2.7000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0604	0.0604	1.7000e-004		0.0639
Unmitigated	3.7254	2.7000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0604	0.0604	1.7000e-004		0.0639

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	0.4020					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7300e-003	2.7000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0604	0.0604	1.7000e-004		0.0639
Total	**3.7254**	**2.7000e-004**	**0.0286**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0604**	**0.0604**	**1.7000e-004**		**0.0639**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3206					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7300e-003	2.7000e-004	0.0286	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0604	0.0604	1.7000e-004		0.0639
Total	**3.3636**	**2.7000e-004**	**0.0286**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0604**	**0.0604**	**1.7000e-004**		**0.0639**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Alternative 2

Lake Tahoe Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.83	1000sqft	0.16	6,830.00	0
Unrefrigerated Warehouse-No Rail	2.21	1000sqft	0.05	2,206.00	0
Golf Course	4.00	Hole	0.80	0.00	0
High Turnover (Sit Down Restaurant)	4.38	1000sqft	0.10	4,375.00	0
Hotel	56.00	Room	1.87	81,312.00	0
Racquet Club	2.88	1000sqft	0.80	2,880.00	0
Recreational Swimming Pool	5.67	1000sqft	0.13	5,673.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	414	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CPUC for Liberty Utility in 2013 assuming a 21.7% renewable portfolio and scaling to 2018 based on RPS goal of 33% renewables by 2020.

Land Use - Land uses based on estimates

Construction Phase - Ground disturbance activities are prohibited October 15 through May 1.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Appx 12 miles to Tahoe Truckee Sierra Disposal Facility. 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc).

Demolition - 6081 CY of material to be demolished and hauled. Assume 500 lbs/CY.

Grading - 3.9 acres is total project site

Architectural Coating - Arch Coating sqft calculated separately. Assumes total of 60560 sqft of non-res space and 82 parking spots to be striped. 90840 sf int. 32182 sf ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Vehicle Trips - Default Racquet Club trip rates may overstate actual Clubhouse trip rates.

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Area Coating - Arch Coating sqft calculated separately. Assumes total of 60560 sqft of non-res space and 82 parking spots to be striped. 90840 sf int. 32182 sf ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use -

Construction Off-road Equipment Mitigation - watering required under PCAPCD Rule 228. Applying Tier 4 mitigation to reduce NOX emissions.

Area Mitigation - PCAPCD Rule 218 specifies that low-solids coatings should have a max VOC content of 120 g/L. Reducing further to meet PCAPCD cumulative thresholds.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	51,638.00	32,182.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	154,914.00	90,840.00

tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	51638	32182
tblAreaCoating	Area_Nonresidential_Interior	154914	90840
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	15
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	15
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	PhaseEndDate	4/23/2018	6/21/2018
tblConstructionPhase	PhaseEndDate	4/28/2017	4/30/2017
tblConstructionPhase	PhaseStartDate	3/29/2018	5/29/2018
tblConstructionPhase	PhaseStartDate	4/22/2017	4/24/2017
tblGrading	AcresOfGrading	4.00	3.90
tblGrading	AcresOfGrading	0.00	3.90
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	2,210.00	2,206.00
tblLandUse	LandUseSquareFeet	4,380.00	4,375.00
tblLandUse	LandUseSquareFeet	5,670.00	5,673.00
tblLandUse	LotAcreage	27.92	0.80
tblLandUse	LotAcreage	0.07	0.80
tblProjectCharacteristics	CO2IntensityFactor	0	414
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	HaulingTripLength	20.00	12.00

tblTripsAndVMT	VendorTripLength	7.30	35.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3885	3.4564	2.8366	4.8100e-003	0.1701	0.1933	0.3634	0.0631	0.1810	0.2441	0.0000	424.9532	424.9532	0.0682	0.0000	426.3846
2018	0.5481	1.0590	0.9358	1.7600e-003	0.0290	0.0587	0.0877	8.0300e-003	0.0551	0.0631	0.0000	152.5951	152.5951	0.0240	0.0000	153.0993
Total	**0.9366**	**4.5154**	**3.7724**	**6.5700e-003**	**0.1991**	**0.2521**	**0.4511**	**0.0712**	**0.2361**	**0.3072**	**0.0000**	**577.5482**	**577.5482**	**0.0922**	**0.0000**	**579.4838**

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	0.0927	0.7641	4.1521	4.8100e-003	0.1206	0.0121	0.1327	0.0406	0.0114	0.0520	0.0000	430.1443	430.1443	0.0686	0.0000	431.5845
2018	0.4593	0.2571	1.5240	1.7600e-003	0.0290	4.1900e-003	0.0332	8.0300e-003	3.9600e-003	0.0120	0.0000	154.5534	154.5534	0.0242	0.0000	155.0606
Total	**0.5520**	**1.0213**	**5.6762**	**6.5700e-003**	**0.1496**	**0.0163**	**0.1659**	**0.0486**	**0.0154**	**0.0640**	**0.0000**	**584.6977**	**584.6977**	**0.0927**	**0.0000**	**586.6450**

	ROG	NOx	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	**41.06**	**77.38**	**-50.47**	**0.00**	**24.84**	**93.55**	**63.23**	**31.70**	**93.49**	**79.18**	**0.00**	**-1.24**	**-1.24**	**-0.61**	**0.00**	**-1.24**

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	0.4462	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1300e-003
Energy	0.0132	0.1197	0.1006	7.2000e-004		9.1000e-003	9.1000e-003		9.1000e-003	9.1000e-003	0.0000	297.0492	297.0492	2.5000e-003	2.3900e-003	297.8424
Mobile	1.2382	1.9925	11.8534	0.0147	0.8834	0.0225	0.9059	0.2371	0.0207	0.2578	0.0000	1,097.2590	1,097.2590	0.0608	0.0000	1,098.5364
Waste						0.0000	0.0000		0.0000	0.0000	28.5162	0.0000	28.5162	1.6853	0.0000	63.9066
Water						0.0000	0.0000		0.0000	0.0000	1.5801	27.7810	29.3611	0.1623	3.8300e-003	33.9573
Total	**1.6975**	**2.1123**	**11.9550**	**0.0154**	**0.8834**	**0.0316**	**0.9150**	**0.2371**	**0.0298**	**0.2669**	**30.0963**	**1,422.0912**	**1,452.1875**	**1.9109**	**6.2200e-003**	**1,494.2448**

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	0.4077	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1300e-003
Energy	0.0132	0.1197	0.1006	7.2000e-004		9.1000e-003	9.1000e-003		9.1000e-003	9.1000e-003	0.0000	297.0492	297.0492	2.5000e-003	2.3900e-003	297.8424
Mobile	1.2382	1.9925	11.8534	0.0147	0.8834	0.0225	0.9059	0.2371	0.0207	0.2578	0.0000	1,097.2590	1,097.2590	0.0608	0.0000	1,098.5364
Waste						0.0000	0.0000		0.0000	0.0000	28.5162	0.0000	28.5162	1.6853	0.0000	63.9066
Water						0.0000	0.0000		0.0000	0.0000	1.5801	27.7810	29.3611	0.1623	3.8300e-003	33.9573
Total	**1.6591**	**2.1123**	**11.9550**	**0.0154**	**0.8834**	**0.0316**	**0.9150**	**0.2371**	**0.0298**	**0.2669**	**30.0963**	**1,422.0912**	**1,452.1875**	**1.9109**	**6.2200e-003**	**1,494.2448**

	ROG	NOx	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	**2.27**	**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	3/25/2017	4/21/2017	5	20	
2	Site Preparation	Site Preparation	4/24/2017	4/30/2017	5	5	
3	Grading	Grading	5/1/2017	5/10/2017	5	8	
4	Building Construction	Building Construction	5/11/2017	3/28/2018	5	230	
5	Paving	Paving	5/29/2018	6/21/2018	5	18	
6	Architectural Coating	Architectural Coating	6/22/2018	7/17/2018	5	18	

Acres of Grading (Site Preparation Phase): 3.9

Acres of Grading (Grading Phase): 3.9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 90,840; Non-Residential Outdoor: 32,182 (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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	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	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	43.00	17.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0165	0.0000	0.0165	2.5000e-003	0.0000	2.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8292
Total	**0.0405**	**0.4270**	**0.3389**	**4.0000e-004**	**0.0165**	**0.0213**	**0.0378**	**2.5000e-003**	**0.0198**	**0.0223**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8292**

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	3.0200e-003	0.0259	0.0434	7.0000e-005	2.6400e-003	2.9000e-004	2.9300e-003	6.9000e-004	2.6000e-004	9.6000e-004	0.0000	6.0439	6.0439	4.0000e-005	0.0000	6.0448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	1.6200e-003	0.0207	3.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.1306	2.1306	1.4000e-004	0.0000	2.1335
Total	**4.4500e-003**	**0.0275**	**0.0642**	**1.0000e-004**	**7.0400e-003**	**3.2000e-004**	**7.3500e-003**	**1.8200e-003**	**2.8000e-004**	**2.1100e-003**	**0.0000**	**8.1745**	**8.1745**	**1.8000e-004**	**0.0000**	**8.1783**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.4300e-003	0.0000	7.4300e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7400e-003	0.0205	0.2383	4.0000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291
Total	**4.7400e-003**	**0.0205**	**0.2383**	**4.0000e-004**	**7.4300e-003**	**6.3000e-004**	**8.0600e-003**	**1.1300e-003**	**6.3000e-004**	**1.7600e-003**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8291**

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	3.0200e-003	0.0259	0.0434	7.0000e-005	2.6400e-003	2.9000e-004	2.9300e-003	6.9000e-004	2.6000e-004	9.6000e-004	0.0000	6.0439	6.0439	4.0000e-005	0.0000	6.0448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	1.6200e-003	0.0207	3.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.1306	2.1306	1.4000e-004	0.0000	2.1335
Total	**4.4500e-003**	**0.0275**	**0.0642**	**1.0000e-004**	**7.0400e-003**	**3.2000e-004**	**7.3500e-003**	**1.8200e-003**	**2.8000e-004**	**2.1100e-003**	**0.0000**	**8.1745**	**8.1745**	**1.8000e-004**	**0.0000**	**8.1783**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0472	0.0000	0.0472	0.0251	0.0000	0.0251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-004		6.8900e-003	6.8900e-003		6.3300e-003	6.3300e-003	0.0000	9.0789	9.0789	2.7800e-003	0.0000	9.1373
Total	**0.0121**	**0.1294**	**0.0985**	**1.0000e-004**	**0.0472**	**6.8900e-003**	**0.0541**	**0.0251**	**6.3300e-003**	**0.0314**	**0.0000**	**9.0789**	**9.0789**	**2.7800e-003**	**0.0000**	**9.1373**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	4.9000e-004	6.2200e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.6392	0.6392	4.0000e-005	0.0000	0.6401
Total	**4.3000e-004**	**4.9000e-004**	**6.2200e-003**	**1.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**0.6392**	**0.6392**	**4.0000e-005**	**0.0000**	**0.6401**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0213	0.0000	0.0213	0.0113	0.0000	0.0113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1900e-003	5.1500e-003	0.0531	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	9.0788	9.0788	2.7800e-003	0.0000	9.1373
Total	**1.1900e-003**	**5.1500e-003**	**0.0531**	**1.0000e-004**	**0.0213**	**1.6000e-004**	**0.0214**	**0.0113**	**1.6000e-004**	**0.0114**	**0.0000**	**9.0788**	**9.0788**	**2.7800e-003**	**0.0000**	**9.1373**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	4.9000e-004	6.2200e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.6392	0.6392	4.0000e-005	0.0000	0.6401
Total	**4.3000e-004**	**4.9000e-004**	**6.2200e-003**	**1.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**0.6392**	**0.6392**	**4.0000e-005**	**0.0000**	**0.6401**

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-004		8.1600e-003	8.1600e-003		7.5000e-003	7.5000e-003	0.0000	11.0447	11.0447	3.3800e-003	0.0000	11.1157
Total	**0.0138**	**0.1439**	**0.1015**	**1.2000e-004**	**0.0262**	**8.1600e-003**	**0.0343**	**0.0135**	**7.5000e-003**	**0.0210**	**0.0000**	**11.0447**	**11.0447**	**3.3800e-003**	**0.0000**	**11.1157**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	3.2000e-004	4.1400e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4261	0.4261	3.0000e-005	0.0000	0.4267
Total	**2.9000e-004**	**3.2000e-004**	**4.1400e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4261**	**0.4261**	**3.0000e-005**	**0.0000**	**0.4267**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0118	0.0000	0.0118	6.0600e-003	0.0000	6.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	6.2800e-003	0.0786	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	11.0447	11.0447	3.3800e-003	0.0000	11.1157
Total	**1.4500e-003**	**6.2800e-003**	**0.0786**	**1.2000e-004**	**0.0118**	**1.9000e-004**	**0.0120**	**6.0600e-003**	**1.9000e-004**	**6.2500e-003**	**0.0000**	**11.0447**	**11.0447**	**3.3800e-003**	**0.0000**	**11.1157**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	3.2000e-004	4.1400e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4261	0.4261	3.0000e-005	0.0000	0.4267
Total	**2.9000e-004**	**3.2000e-004**	**4.1400e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4261**	**0.4261**	**3.0000e-005**	**0.0000**	**0.4267**

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	0.2591	2.2049	1.5138	2.2400e-003		0.1487	0.1487		0.1397	0.1397	0.0000	199.9651	199.9651	0.0492	0.0000	200.9986
Total	**0.2591**	**2.2049**	**1.5138**	**2.2400e-003**		**0.1487**	**0.1487**		**0.1397**	**0.1397**	**0.0000**	**199.9651**	**199.9651**	**0.0492**	**0.0000**	**200.9986**

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	0.0000
Vendor	0.0408	0.5036	0.4613	1.4900e-003	0.0431	7.6800e-003	0.0508	0.0123	7.0600e-003	0.0194	0.0000	133.5070	133.5070	8.4000e-004	0.0000	133.5245
Worker	0.0171	0.0194	0.2480	3.6000e-004	0.0282	3.2000e-004	0.0286	7.5100e-003	2.9000e-004	7.8000e-003	0.0000	25.4996	25.4996	1.6500e-003	0.0000	25.5342
Total	**0.0579**	**0.5230**	**0.7093**	**1.8500e-003**	**0.0714**	**8.0000e-003**	**0.0794**	**0.0198**	**7.3500e-003**	**0.0272**	**0.0000**	**159.0065**	**159.0065**	**2.4900e-003**	**0.0000**	**159.0588**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0223	0.1809	2.9983	2.2400e-003		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	205.1562	205.1562	0.0496	0.0000	206.1986
Total	**0.0223**	**0.1809**	**2.9983**	**2.2400e-003**		**2.7800e-003**	**2.7800e-003**		**2.7800e-003**	**2.7800e-003**	**0.0000**	**205.1562**	**205.1562**	**0.0496**	**0.0000**	**206.1986**

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	0.0000
Vendor	0.0408	0.5036	0.4613	1.4900e-003	0.0431	7.6800e-003	0.0508	0.0123	7.0600e-003	0.0194	0.0000	133.5070	133.5070	8.4000e-004	0.0000	133.5245
Worker	0.0171	0.0194	0.2480	3.6000e-004	0.0282	3.2000e-004	0.0286	7.5100e-003	2.9000e-004	7.8000e-003	0.0000	25.4996	25.4996	1.6500e-003	0.0000	25.5342
Total	**0.0579**	**0.5230**	**0.7093**	**1.8500e-003**	**0.0714**	**8.0000e-003**	**0.0794**	**0.0198**	**7.3500e-003**	**0.0272**	**0.0000**	**159.0065**	**159.0065**	**2.4900e-003**	**0.0000**	**159.0588**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0841	0.7327	0.5523	8.4000e-004		0.0471	0.0471		0.0443	0.0443	0.0000	74.5825	74.5825	0.0183	0.0000	74.9657
Total	**0.0841**	**0.7327**	**0.5523**	**8.4000e-004**		**0.0471**	**0.0471**		**0.0443**	**0.0443**	**0.0000**	**74.5825**	**74.5825**	**0.0183**	**0.0000**	**74.9657**

3.5 Building Construction - 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	0.0000
Vendor	0.0144	0.1715	0.1603	5.6000e-004	0.0163	2.7100e-003	0.0190	4.6500e-003	2.4900e-003	7.1400e-003	0.0000	49.6075	49.6075	3.1000e-004	0.0000	49.6140
Worker	5.5700e-003	6.5800e-003	0.0807	1.3000e-004	0.0107	1.1000e-004	0.0108	2.8300e-003	1.0000e-004	2.9400e-003	0.0000	9.2590	9.2590	5.6000e-004	0.0000	9.2708
Total	**0.0200**	**0.1781**	**0.2410**	**6.9000e-004**	**0.0269**	**2.8200e-003**	**0.0298**	**7.4800e-003**	**2.5900e-003**	**0.0101**	**0.0000**	**58.8665**	**58.8665**	**8.7000e-004**	**0.0000**	**58.8847**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.4000e-003	0.0682	1.1311	8.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	76.5408	76.5408	0.0184	0.0000	76.9271
Total	**8.4000e-003**	**0.0682**	**1.1311**	**8.4000e-004**		**1.0500e-003**	**1.0500e-003**		**1.0500e-003**	**1.0500e-003**	**0.0000**	**76.5408**	**76.5408**	**0.0184**	**0.0000**	**76.9271**

3.5 Building Construction - 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	0.0000
Vendor	0.0144	0.1715	0.1603	5.6000e-004	0.0163	2.7100e-003	0.0190	4.6500e-003	2.4900e-003	7.1400e-003	0.0000	49.6075	49.6075	3.1000e-004	0.0000	49.6140
Worker	5.5700e-003	6.5800e-003	0.0807	1.3000e-004	0.0107	1.1000e-004	0.0108	2.8300e-003	1.0000e-004	2.9400e-003	0.0000	9.2590	9.2590	5.6000e-004	0.0000	9.2708
Total	**0.0200**	**0.1781**	**0.2410**	**6.9000e-004**	**0.0269**	**2.8200e-003**	**0.0298**	**7.4800e-003**	**2.5900e-003**	**0.0101**	**0.0000**	**58.8665**	**58.8665**	**8.7000e-004**	**0.0000**	**58.8847**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.1289	0.1104	1.7000e-004		7.4500e-003	7.4500e-003		6.8700e-003	6.8700e-003	0.0000	15.0641	15.0641	4.5600e-003	0.0000	15.1599
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0127**	**0.1289**	**0.1104**	**1.7000e-004**		**7.4500e-003**	**7.4500e-003**		**6.8700e-003**	**6.8700e-003**	**0.0000**	**15.0641**	**15.0641**	**4.5600e-003**	**0.0000**	**15.1599**

3.6 Paving - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	8.7000e-004	0.0107	2.0000e-005	1.4200e-003	2.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2304	1.2304	7.0000e-005	0.0000	1.2320
Total	**7.4000e-004**	**8.7000e-004**	**0.0107**	**2.0000e-005**	**1.4200e-003**	**2.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2304**	**1.2304**	**7.0000e-005**	**0.0000**	**1.2320**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9400e-003	8.4300e-003	0.1199	1.7000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	15.0641	15.0641	4.5600e-003	0.0000	15.1599
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.9400e-003**	**8.4300e-003**	**0.1199**	**1.7000e-004**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**15.0641**	**15.0641**	**4.5600e-003**	**0.0000**	**15.1599**

3.6 Paving - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	8.7000e-004	0.0107	2.0000e-005	1.4200e-003	2.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2304	1.2304	7.0000e-005	0.0000	1.2320
Total	**7.4000e-004**	**8.7000e-004**	**0.0107**	**2.0000e-005**	**1.4200e-003**	**2.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2304**	**1.2304**	**7.0000e-005**	**0.0000**	**1.2320**

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	0.4277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
Total	**0.4304**	**0.0181**	**0.0167**	**3.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.3500e-003**	**1.3500e-003**	**0.0000**	**2.2979**	**2.2979**	**2.2000e-004**	**0.0000**	**2.3025**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	3.9000e-004	4.8200e-003	1.0000e-005	6.4000e-004	1.0000e-005	6.4000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.5537	0.5537	3.0000e-005	0.0000	0.5544
Total	**3.3000e-004**	**3.9000e-004**	**4.8200e-003**	**1.0000e-005**	**6.4000e-004**	**1.0000e-005**	**6.4000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**0.5537**	**0.5537**	**3.0000e-005**	**0.0000**	**0.5544**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4277					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	1.1600e-003	0.0165	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
Total	**0.4279**	**1.1600e-003**	**0.0165**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.2979**	**2.2979**	**2.2000e-004**	**0.0000**	**2.3025**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	3.9000e-004	4.8200e-003	1.0000e-005	6.4000e-004	1.0000e-005	6.4000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.5537	0.5537	3.0000e-005	0.0000	0.5544
Total	**3.3000e-004**	**3.9000e-004**	**4.8200e-003**	**1.0000e-005**	**6.4000e-004**	**1.0000e-005**	**6.4000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**0.5537**	**0.5537**	**3.0000e-005**	**0.0000**	**0.5544**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2382	1.9925	11.8534	0.0147	0.8834	0.0225	0.9059	0.2371	0.0207	0.2578	0.0000	1,097.2590	1,097.2590	0.0608	0.0000	1,098.5364
Unmitigated	1.2382	1.9925	11.8534	0.0147	0.8834	0.0225	0.9059	0.2371	0.0207	0.2578	0.0000	1,097.2590	1,097.2590	0.0608	0.0000	1,098.5364

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	75.20	16.19	6.69	136,172	136,172
Golf Course	142.96	162.52	158.12	267,333	267,333
High Turnover (Sit Down Restaurant)	556.92	693.66	577.46	672,242	672,242
Hotel	457.52	458.64	333.20	835,818	835,818
Racquet Club	94.84	60.11	76.98	148,538	148,538
Recreational Swimming Pool	186.71	118.33	151.56	310,712	310,712
Unrefrigerated Warehouse-No Rail	5.72	5.72	5.72	16,711	16,711
Total	1,519.87	1,515.17	1,309.74	2,387,525	2,387,525

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	166.7129	166.7129	0.0000	0.0000	166.7129
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	166.7129	166.7129	0.0000	0.0000	166.7129
NaturalGas Mitigated	0.0132	0.1197	0.1006	7.2000e-004		9.1000e-003	9.1000e-003		9.1000e-003	9.1000e-003	0.0000	130.3363	130.3363	2.5000e-003	2.3900e-003	131.1295
NaturalGas Unmitigated	0.0132	0.1197	0.1006	7.2000e-004		9.1000e-003	9.1000e-003		9.1000e-003	9.1000e-003	0.0000	130.3363	130.3363	2.5000e-003	2.3900e-003	131.1295

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					
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	514719	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4674	27.4674	5.3000e-004	5.0000e-004	27.6345
Hotel	1.77667e+006	9.5800e-003	0.0871	0.0732	5.2000e-004		6.6200e-003	6.6200e-003		6.6200e-003	6.6200e-003	0.0000	94.8097	94.8097	1.8200e-003	1.7400e-003	95.3867
Racquet Club	10598.4	6.0000e-005	5.2000e-004	4.4000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5656	0.5656	1.0000e-005	1.0000e-005	0.5690
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	140425	7.6000e-004	6.8800e-003	5.7800e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4936	7.4936	1.4000e-004	1.4000e-004	7.5392
Total		**0.0132**	**0.1197**	**0.1006**	**7.1000e-004**		**9.1000e-003**	**9.1000e-003**		**9.1000e-003**	**9.1000e-003**	**0.0000**	**130.3363**	**130.3363**	**2.5000e-003**	**2.3900e-003**	**131.1295**

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					
High Turnover (Sit Down Restaurant)	514719	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4674	27.4674	5.3000e-004	5.0000e-004	27.6345
Hotel	1.77667e+006	9.5800e-003	0.0871	0.0732	5.2000e-004		6.6200e-003	6.6200e-003		6.6200e-003	6.6200e-003	0.0000	94.8097	94.8097	1.8200e-003	1.7400e-003	95.3867
Racquet Club	10598.4	6.0000e-005	5.2000e-004	4.4000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5656	0.5656	1.0000e-005	1.0000e-005	0.5690
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	140425	7.6000e-004	6.8800e-003	5.7800e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4936	7.4936	1.4000e-004	1.4000e-004	7.5392
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0132**	**0.1197**	**0.1006**	**7.1000e-004**		**9.1000e-003**	**9.1000e-003**		**9.1000e-003**	**9.1000e-003**	**0.0000**	**130.3363**	**130.3363**	**2.5000e-003**	**2.3900e-003**	**131.1295**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	84350.5	15.8400	0.0000	0.0000	15.8400
Golf Course	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	114100	21.4265	0.0000	0.0000	21.4265
Hotel	675703	126.8884	0.0000	0.0000	126.8884
Racquet Club	13622.4	2.5581	0.0000	0.0000	2.5581
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**166.7129**	**0.0000**	**0.0000**	**166.7129**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	84350.5	15.8400	0.0000	0.0000	15.8400
Golf Course	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	114100	21.4265	0.0000	0.0000	21.4265
Hotel	675703	126.8884	0.0000	0.0000	126.8884
Racquet Club	13622.4	2.5581	0.0000	0.0000	2.5581
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**166.7129**	**0.0000**	**0.0000**	**166.7129**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4077	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1300e-003
Unmitigated	0.4462	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1300e-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	0.0428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1300e-003
Total	**0.4462**	**1.0000e-005**	**1.0500e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0100e-003**	**2.0100e-003**	**1.0000e-005**	**0.0000**	**2.1300e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0500e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0100e-003	2.0100e-003	1.0000e-005	0.0000	2.1300e-003
Total	**0.4077**	**1.0000e-005**	**1.0500e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0100e-003**	**2.0100e-003**	**1.0000e-005**	**0.0000**	**2.1300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	29.3611	0.1623	3.8300e-003	33.9573
Unmitigated	29.3611	0.1623	3.8300e-003	33.9573

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.21392 / 0.744016	2.1076	0.0396	9.3000e-004	3.2278
Golf Course	0 / 33.2714	21.8678	0.0000	0.0000	21.8678
High Turnover (Sit Down Restaurant)	1.32948 / 0.0848603	1.8285	0.0433	1.0200e-003	3.0553
Hotel	1.42054 / 0.157838	1.9978	0.0463	1.0900e-003	3.3087
Racquet Club	0.170332 / 0.104397	0.2957	5.5500e-003	1.3000e-004	0.4529
Recreational Swimming Pool	0.335342 / 0.205532	0.5822	0.0109	2.6000e-004	0.8917
Unrefrigerated Warehouse-No Rail	0.511062 / 0	0.6814	0.0167	3.9000e-004	1.1530
Total		**29.3611**	**0.1623**	**3.8200e-003**	**33.9573**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.21392 / 0.744016	2.1076	0.0396	9.3000e-004	3.2278
Golf Course	0 / 33.2714	21.8678	0.0000	0.0000	21.8678
High Turnover (Sit Down Restaurant)	1.32948 / 0.0848603	1.8285	0.0433	1.0200e-003	3.0553
Hotel	1.42054 / 0.157838	1.9978	0.0463	1.0900e-003	3.3087
Racquet Club	0.170332 / 0.104397	0.2957	5.5500e-003	1.3000e-004	0.4529
Recreational Swimming Pool	0.335342 / 0.205532	0.5822	0.0109	2.6000e-004	0.8917
Unrefrigerated Warehouse-No Rail	0.511062 / 0	0.6814	0.0167	3.9000e-004	1.1530
Total		**29.3611**	**0.1623**	**3.8200e-003**	**33.9573**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.5162	1.6853	0.0000	63.9066
Unmitigated	28.5162	1.6853	0.0000	63.9066

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	6.35	1.2890	0.0762	0.0000	2.8887
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
High Turnover (Sit Down Restaurant)	52.12	10.5799	0.6253	0.0000	23.7102
Hotel	30.66	6.2237	0.3678	0.0000	13.9477
Racquet Club	16.42	3.3331	0.1970	0.0000	7.4697
Recreational Swimming Pool	32.32	6.5607	0.3877	0.0000	14.7029
Unrefrigerated Warehouse-No Rail	2.08	0.4222	0.0250	0.0000	0.9462
Total		**28.5162**	**1.6853**	**0.0000**	**63.9066**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	6.35	1.2890	0.0762	0.0000	2.8887
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
High Turnover (Sit Down Restaurant)	52.12	10.5799	0.6253	0.0000	23.7102
Hotel	30.66	6.2237	0.3678	0.0000	13.9477
Racquet Club	16.42	3.3331	0.1970	0.0000	7.4697
Recreational Swimming Pool	32.32	6.5607	0.3877	0.0000	14.7029
Unrefrigerated Warehouse-No Rail	2.08	0.4222	0.0250	0.0000	0.9462
Total		**28.5162**	**1.6853**	**0.0000**	**63.9066**

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Alternative 2

Lake Tahoe Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.83	1000sqft	0.16	6,830.00	0
Unrefrigerated Warehouse-No Rail	2.21	1000sqft	0.05	2,206.00	0
Golf Course	4.00	Hole	0.80	0.00	0
High Turnover (Sit Down Restaurant)	4.38	1000sqft	0.10	4,375.00	0
Hotel	56.00	Room	1.87	81,312.00	0
Racquet Club	2.88	1000sqft	0.80	2,880.00	0
Recreational Swimming Pool	5.67	1000sqft	0.13	5,673.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	414	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CPUC for Liberty Utility in 2013 assuming a 21.7% renewable portfolio and scaling to 2018 based on RPS goal of 33% renewables by 2020.

Land Use - Land uses based on estimates

Construction Phase - Ground disturbance activities are prohibited October 15 through May 1.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Appx 12 miles to Tahoe Truckee Sierra Disposal Facility. 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc).

Demolition - 6081 CY of material to be demolished and hauled. Assume 500 lbs/CY.

Grading - 3.9 acres is total project site

Architectural Coating - Arch Coating sqft calculated separately. Assumes total of 60560 sqft of non-res space and 82 parking spots to be striped. 90840 sf int. 32182 sf ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Vehicle Trips - Default Racquet Club trip rates may overstate actual Clubhouse trip rates.

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Area Coating - Arch Coating sqft calculated separately. Assumes total of 60560 sqft of non-res space and 82 parking spots to be striped. 90840 sf int. 32182 sf ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use -

Construction Off-road Equipment Mitigation - watering required under PCAPCD Rule 228. Applying Tier 4 mitigation to reduce NOX emissions.

Area Mitigation - PCAPCD Rule 218 specifies that low-solids coatings should have a max VOC content of 120 g/L. Reducing further to meet PCAPCD cumulative thresholds.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	51,638.00	32,182.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	154,914.00	90,840.00

tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	51638	32182
tblAreaCoating	Area_Nonresidential_Interior	154914	90840
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	15
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	15
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	PhaseEndDate	4/23/2018	6/21/2018
tblConstructionPhase	PhaseEndDate	4/28/2017	4/30/2017
tblConstructionPhase	PhaseStartDate	3/29/2018	5/29/2018
tblConstructionPhase	PhaseStartDate	4/22/2017	4/24/2017
tblGrading	AcresOfGrading	4.00	3.90
tblGrading	AcresOfGrading	0.00	3.90
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	2,210.00	2,206.00
tblLandUse	LandUseSquareFeet	4,380.00	4,375.00
tblLandUse	LandUseSquareFeet	5,670.00	5,673.00
tblLandUse	LotAcreage	27.92	0.80
tblLandUse	LotAcreage	0.07	0.80
tblProjectCharacteristics	CO2IntensityFactor	0	414
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	HaulingTripLength	20.00	12.00

tblTripsAndVMT	VendorTripLength	7.30	35.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	4.9949	51.9239	41.5934	0.0496	19.4462	2.7574	22.2036	10.1615	2.5368	12.6983	0.0000	4,938.0973	4,938.0973	1.2448	0.0000	4,964.2380
2018	47.8499	28.7751	23.7545	0.0489	0.8893	1.5839	2.4731	0.2460	1.4872	1.7332	0.0000	4,670.4129	4,670.4129	0.6691	0.0000	4,684.4637
Total	**52.8448**	**80.6990**	**65.3478**	**0.0985**	**20.3355**	**4.3412**	**24.6767**	**10.4075**	**4.0240**	**14.4315**	**0.0000**	**9,608.5102**	**9,608.5102**	**1.9139**	**0.0000**	**9,648.7017**

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	0.9046	8.2746	42.8639	0.0496	9.0548	0.1289	9.1214	4.6505	0.1212	4.7169	0.0000	4,938.0973	4,938.0973	1.2448	0.0000	4,964.2380
2018	47.5810	7.6804	42.1298	0.0489	0.8893	0.1228	1.0121	0.2460	0.1157	0.3617	0.0000	4,738.9467	4,738.9467	0.6740	0.0000	4,753.1014
Total	**48.4855**	**15.9549**	**84.9937**	**0.0985**	**9.9441**	**0.2517**	**10.1335**	**4.8965**	**0.2369**	**5.0785**	**0.0000**	**9,677.0440**	**9,677.0440**	**1.9188**	**0.0000**	**9,717.3393**

	ROG	NOx	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	**8.25**	**80.23**	**-30.06**	**0.00**	**51.10**	**94.20**	**58.93**	**52.95**	**94.11**	**64.81**	**0.00**	**-0.71**	**-0.71**	**-0.26**	**0.00**	**-0.71**

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	2.4453	8.0000e-005	8.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0179	0.0179	5.0000e-005		0.0190
Energy	0.0722	0.6560	0.5511	3.9400e-003		0.0499	0.0499		0.0499	0.0499		787.2391	787.2391	0.0151	0.0144	792.0301
Mobile	6.8988	11.5364	59.7095	0.0899	5.6568	0.1379	5.7948	1.5128	0.1271	1.6399		7,423.6759	7,423.6759	0.4124		7,432.3371
Total	**9.4162**	**12.1925**	**60.2691**	**0.0939**	**5.6568**	**0.1878**	**5.8446**	**1.5128**	**0.1770**	**1.6898**		**8,210.9329**	**8,210.9329**	**0.4276**	**0.0144**	**8,224.3862**

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	2.2344	8.0000e-005	8.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0179	0.0179	5.0000e-005		0.0190
Energy	0.0722	0.6560	0.5511	3.9400e-003		0.0499	0.0499		0.0499	0.0499		787.2391	787.2391	0.0151	0.0144	792.0301
Mobile	6.8988	11.5364	59.7095	0.0899	5.6568	0.1379	5.7948	1.5128	0.1271	1.6399		7,423.6759	7,423.6759	0.4124		7,432.3371
Total	**9.2053**	**12.1925**	**60.2691**	**0.0939**	**5.6568**	**0.1878**	**5.8446**	**1.5128**	**0.1770**	**1.6898**		**8,210.9329**	**8,210.9329**	**0.4276**	**0.0144**	**8,224.3862**

	ROG	NOx	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	**2.24**	**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	3/25/2017	4/21/2017	5	20	
2	Site Preparation	Site Preparation	4/24/2017	4/30/2017	5	5	
3	Grading	Grading	5/1/2017	5/10/2017	5	8	
4	Building Construction	Building Construction	5/11/2017	3/28/2018	5	230	
5	Paving	Paving	5/29/2018	6/21/2018	5	18	
6	Architectural Coating	Architectural Coating	6/22/2018	7/17/2018	5	18	

Acres of Grading (Site Preparation Phase): 3.9

Acres of Grading (Grading Phase): 3.9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 90,840; Non-Residential Outdoor: 32,182 (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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	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	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	43.00	17.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6521	0.0000	1.6521	0.2502	0.0000	0.2502			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**1.6521**	**2.1252**	**3.7773**	**0.2502**	**1.9797**	**2.2299**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	0.2645	2.5327	2.9758	6.7500e-003	0.2759	0.0287	0.3046	0.0722	0.0264	0.0986		667.3271	667.3271	4.5000e-003		667.4216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1306	0.1421	1.8303	2.9800e-003	0.4606	2.6300e-003	0.4633	0.1179	2.4200e-003	0.1204		234.3029	234.3029	0.0152		234.6224
Total	**0.3951**	**2.6748**	**4.8061**	**9.7300e-003**	**0.7365**	**0.0313**	**0.7678**	**0.1901**	**0.0288**	**0.2189**		**901.6300**	**901.6300**	**0.0197**		**902.0439**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7435	0.0000	0.7435	0.1126	0.0000	0.1126			0.0000			0.0000
Off-Road	0.4739	2.0535	23.8257	0.0399		0.0632	0.0632		0.0632	0.0632	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**0.4739**	**2.0535**	**23.8257**	**0.0399**	**0.7435**	**0.0632**	**0.8066**	**0.1126**	**0.0632**	**0.1758**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	0.2645	2.5327	2.9758	6.7500e-003	0.2759	0.0287	0.3046	0.0722	0.0264	0.0986		667.3271	667.3271	4.5000e-003		667.4216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1306	0.1421	1.8303	2.9800e-003	0.4606	2.6300e-003	0.4633	0.1179	2.4200e-003	0.1204		234.3029	234.3029	0.0152		234.6224
Total	**0.3951**	**2.6748**	**4.8061**	**9.7300e-003**	**0.7365**	**0.0313**	**0.7678**	**0.1901**	**0.0288**	**0.2189**		**901.6300**	**901.6300**	**0.0197**		**902.0439**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.8935	0.0000	18.8935	10.0200	0.0000	10.0200			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**18.8935**	**2.7542**	**21.6477**	**10.0200**	**2.5339**	**12.5539**		**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1567	0.1705	2.1963	3.5800e-003	0.5528	3.1600e-003	0.5559	0.1415	2.9000e-003	0.1444		281.1635	281.1635	0.0183		281.5468
Total	**0.1567**	**0.1705**	**2.1963**	**3.5800e-003**	**0.5528**	**3.1600e-003**	**0.5559**	**0.1415**	**2.9000e-003**	**0.1444**		**281.1635**	**281.1635**	**0.0183**		**281.5468**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5021	0.0000	8.5021	4.5090	0.0000	4.5090			0.0000			0.0000
Off-Road	0.4757	2.0615	21.2415	0.0391		0.0634	0.0634		0.0634	0.0634	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**0.4757**	**2.0615**	**21.2415**	**0.0391**	**8.5021**	**0.0634**	**8.5655**	**4.5090**	**0.0634**	**4.5724**	**0.0000**	**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1567	0.1705	2.1963	3.5800e-003	0.5528	3.1600e-003	0.5559	0.1415	2.9000e-003	0.1444		281.1635	281.1635	0.0183		281.5468
Total	**0.1567**	**0.1705**	**2.1963**	**3.5800e-003**	**0.5528**	**3.1600e-003**	**0.5559**	**0.1415**	**2.9000e-003**	**0.1444**		**281.1635**	**281.1635**	**0.0183**		**281.5468**

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					6.5391	0.0000	6.5391	3.3661	0.0000	3.3661			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.6667	3,043.6667	0.9326		3,063.2507
Total	**3.4555**	**35.9825**	**25.3812**	**0.0297**	**6.5391**	**2.0388**	**8.5779**	**3.3661**	**1.8757**	**5.2418**		**3,043.6667**	**3,043.6667**	**0.9326**		**3,063.2507**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0653	0.0710	0.9151	1.4900e-003	0.1232	1.3200e-003	0.1245	0.0327	1.2100e-003	0.0339		117.1515	117.1515	7.6100e-003		117.3112
Total	**0.0653**	**0.0710**	**0.9151**	**1.4900e-003**	**0.1232**	**1.3200e-003**	**0.1245**	**0.0327**	**1.2100e-003**	**0.0339**		**117.1515**	**117.1515**	**7.6100e-003**		**117.3112**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9426	0.0000	2.9426	1.5147	0.0000	1.5147			0.0000			0.0000
Off-Road	0.3625	1.5709	19.6566	0.0297		0.0483	0.0483		0.0483	0.0483	0.0000	3,043.6667	3,043.6667	0.9326		3,063.2507
Total	**0.3625**	**1.5709**	**19.6566**	**0.0297**	**2.9426**	**0.0483**	**2.9909**	**1.5147**	**0.0483**	**1.5631**	**0.0000**	**3,043.6667**	**3,043.6667**	**0.9326**		**3,063.2507**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0653	0.0710	0.9151	1.4900e-003	0.1232	1.3200e-003	0.1245	0.0327	1.2100e-003	0.0339		117.1515	117.1515	7.6100e-003		117.3112
Total	**0.0653**	**0.0710**	**0.9151**	**1.4900e-003**	**0.1232**	**1.3200e-003**	**0.1245**	**0.0327**	**1.2100e-003**	**0.0339**		**117.1515**	**117.1515**	**7.6100e-003**		**117.3112**

3.5 Building Construction - 2017

Unmitigated Construction On-Site

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

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		0.0000
Vendor	0.4507	5.9048	4.3325	0.0178	0.5359	0.0919	0.6278	0.1523	0.0845	0.2368		1,763.7541	1,763.7541	0.0110		1,763.9852
Worker	0.1872	0.2036	2.6234	4.2700e-003	0.3532	3.7700e-003	0.3570	0.0937	3.4700e-003	0.0972		335.8342	335.8342	0.0218		336.2920
Total	**0.6379**	**6.1084**	**6.9559**	**0.0221**	**0.8891**	**0.0956**	**0.9848**	**0.2460**	**0.0880**	**0.3339**		**2,099.5882**	**2,099.5882**	**0.0328**		**2,100.2772**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2666	2.1662	35.9080	0.0268		0.0332	0.0332		0.0332	0.0332	0.0000	2,708.3391	2,708.3391	0.6553		2,722.0993
Total	**0.2666**	**2.1662**	**35.9080**	**0.0268**		**0.0332**	**0.0332**		**0.0332**	**0.0332**	**0.0000**	**2,708.3391**	**2,708.3391**	**0.6553**		**2,722.0993**

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		0.0000
Vendor	0.4507	5.9048	4.3325	0.0178	0.5359	0.0919	0.6278	0.1523	0.0845	0.2368		1,763.7541	1,763.7541	0.0110		1,763.9852
Worker	0.1872	0.2036	2.6234	4.2700e-003	0.3532	3.7700e-003	0.3570	0.0937	3.4700e-003	0.0972		335.8342	335.8342	0.0218		336.2920
Total	**0.6379**	**6.1084**	**6.9559**	**0.0221**	**0.8891**	**0.0956**	**0.9848**	**0.2460**	**0.0880**	**0.3339**		**2,099.5882**	**2,099.5882**	**0.0328**		**2,100.2772**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.5 Building Construction - 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		0.0000
Vendor	0.4236	5.3310	3.9463	0.0178	0.5360	0.0860	0.6220	0.1523	0.0791	0.2314		1,737.2317	1,737.2317	0.0107		1,737.4560
Worker	0.1624	0.1833	2.2755	4.2700e-003	0.3532	3.6000e-003	0.3568	0.0937	3.3200e-003	0.0970		323.2422	323.2422	0.0197		323.6561
Total	**0.5860**	**5.5142**	**6.2218**	**0.0221**	**0.8893**	**0.0896**	**0.9789**	**0.2460**	**0.0824**	**0.3284**		**2,060.4739**	**2,060.4739**	**0.0304**		**2,061.1120**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2666	2.1662	35.9080	0.0268		0.0332	0.0332		0.0332	0.0332	0.0000	2,678.4728	2,678.4728	0.6437		2,691.9893
Total	**0.2666**	**2.1662**	**35.9080**	**0.0268**		**0.0332**	**0.0332**		**0.0332**	**0.0332**	**0.0000**	**2,678.4728**	**2,678.4728**	**0.6437**		**2,691.9893**

3.5 Building Construction - 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		0.0000
Vendor	0.4236	5.3310	3.9463	0.0178	0.5360	0.0860	0.6220	0.1523	0.0791	0.2314		1,737.2317	1,737.2317	0.0107		1,737.4560
Worker	0.1624	0.1833	2.2755	4.2700e-003	0.3532	3.6000e-003	0.3568	0.0937	3.3200e-003	0.0970		323.2422	323.2422	0.0197		323.6561
Total	**0.5860**	**5.5142**	**6.2218**	**0.0221**	**0.8893**	**0.0896**	**0.9789**	**0.2460**	**0.0824**	**0.3284**		**2,060.4739**	**2,060.4739**	**0.0304**		**2,061.1120**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4060**	**14.3192**	**12.2631**	**0.0187**		**0.8272**	**0.8272**		**0.7628**	**0.7628**		**1,845.0348**	**1,845.0348**	**0.5587**		**1,856.7667**

3.6 Paving - 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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0755	0.0852	1.0584	1.9900e-003	0.1643	1.6700e-003	0.1660	0.0436	1.5400e-003	0.0451		150.3452	150.3452	9.1700e-003		150.5377
Total	**0.0755**	**0.0852**	**1.0584**	**1.9900e-003**	**0.1643**	**1.6700e-003**	**0.1660**	**0.0436**	**1.5400e-003**	**0.0451**		**150.3452**	**150.3452**	**9.1700e-003**		**150.5377**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2161	0.9363	13.3248	0.0187		0.0288	0.0288		0.0288	0.0288	0.0000	1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2161**	**0.9363**	**13.3248**	**0.0187**		**0.0288**	**0.0288**		**0.0288**	**0.0288**	**0.0000**	**1,845.0348**	**1,845.0348**	**0.5587**		**1,856.7667**

3.6 Paving - 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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0755	0.0852	1.0584	1.9900e-003	0.1643	1.6700e-003	0.1660	0.0436	1.5400e-003	0.0451		150.3452	150.3452	9.1700e-003		150.5377
Total	**0.0755**	**0.0852**	**1.0584**	**1.9900e-003**	**0.1643**	**1.6700e-003**	**0.1660**	**0.0436**	**1.5400e-003**	**0.0451**		**150.3452**	**150.3452**	**9.1700e-003**		**150.5377**

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	47.5173					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**47.8159**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0340	0.0384	0.4763	8.9000e-004	0.0739	7.5000e-004	0.0747	0.0196	6.9000e-004	0.0203		67.6554	67.6554	4.1200e-003		67.7420
Total	**0.0340**	**0.0384**	**0.4763**	**8.9000e-004**	**0.0739**	**7.5000e-004**	**0.0747**	**0.0196**	**6.9000e-004**	**0.0203**		**67.6554**	**67.6554**	**4.1200e-003**		**67.7420**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	47.5173					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**47.5470**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4485**	**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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0340	0.0384	0.4763	8.9000e-004	0.0739	7.5000e-004	0.0747	0.0196	6.9000e-004	0.0203		67.6554	67.6554	4.1200e-003		67.7420
Total	**0.0340**	**0.0384**	**0.4763**	**8.9000e-004**	**0.0739**	**7.5000e-004**	**0.0747**	**0.0196**	**6.9000e-004**	**0.0203**		**67.6554**	**67.6554**	**4.1200e-003**		**67.7420**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.8988	11.5364	59.7095	0.0899	5.6568	0.1379	5.7948	1.5128	0.1271	1.6399		7,423.6759	7,423.6759	0.4124		7,432.3371
Unmitigated	6.8988	11.5364	59.7095	0.0899	5.6568	0.1379	5.7948	1.5128	0.1271	1.6399		7,423.6759	7,423.6759	0.4124		7,432.3371

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	75.20	16.19	6.69	136,172	136,172
Golf Course	142.96	162.52	158.12	267,333	267,333
High Turnover (Sit Down Restaurant)	556.92	693.66	577.46	672,242	672,242
Hotel	457.52	458.64	333.20	835,818	835,818
Racquet Club	94.84	60.11	76.98	148,538	148,538
Recreational Swimming Pool	186.71	118.33	151.56	310,712	310,712
Unrefrigerated Warehouse-No Rail	5.72	5.72	5.72	16,711	16,711
Total	1,519.87	1,515.17	1,309.74	2,387,525	2,387,525

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0722	0.6560	0.5511	3.9400e-003		0.0499	0.0499		0.0499	0.0499		787.2391	787.2391	0.0151	0.0144	792.0301
NaturalGas Unmitigated	0.0722	0.6560	0.5511	3.9400e-003		0.0499	0.0499		0.0499	0.0499		787.2391	787.2391	0.0151	0.0144	792.0301

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					
High Turnover (Sit Down Restaurant)	1410.19	0.0152	0.1383	0.1161	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.9045	165.9045	3.1800e-003	3.0400e-003	166.9142
Hotel	4867.58	0.0525	0.4772	0.4009	2.8600e-003		0.0363	0.0363		0.0363	0.0363		572.6566	572.6566	0.0110	0.0105	576.1417
Racquet Club	29.0367	3.1000e-004	2.8500e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.4161	3.4161	7.0000e-005	6.0000e-005	3.4369
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	384.725	4.1500e-003	0.0377	0.0317	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003		45.2618	45.2618	8.7000e-004	8.3000e-004	45.5373
Golf Course	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		**0.0722**	**0.6560**	**0.5511**	**3.9400e-003**		**0.0499**	**0.0499**		**0.0499**	**0.0499**		**787.2390**	**787.2390**	**0.0151**	**0.0144**	**792.0301**

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					
High Turnover (Sit Down Restaurant)	1.41019	0.0152	0.1383	0.1161	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.9045	165.9045	3.1800e-003	3.0400e-003	166.9142
Hotel	4.86758	0.0525	0.4772	0.4009	2.8600e-003		0.0363	0.0363		0.0363	0.0363		572.6566	572.6566	0.0110	0.0105	576.1417
Racquet Club	0.0290367	3.1000e-004	2.8500e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.4161	3.4161	7.0000e-005	6.0000e-005	3.4369
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.384725	4.1500e-003	0.0377	0.0317	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003		45.2618	45.2618	8.7000e-004	8.3000e-004	45.5373
Golf Course	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		**0.0722**	**0.6560**	**0.5511**	**3.9400e-003**		**0.0499**	**0.0499**		**0.0499**	**0.0499**		**787.2390**	**787.2390**	**0.0151**	**0.0144**	**792.0301**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.2344	8.0000e-005	8.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0179	0.0179	5.0000e-005		0.0190
Unmitigated	2.4453	8.0000e-005	8.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0179	0.0179	5.0000e-005		0.0190

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	0.2343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2101					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.1000e-004	8.0000e-005	8.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0179	0.0179	5.0000e-005		0.0190
Total	**2.4453**	**8.0000e-005**	**8.4800e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0179**	**0.0179**	**5.0000e-005**		**0.0190**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2101					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.1000e-004	8.0000e-005	8.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0179	0.0179	5.0000e-005		0.0190
Total	**2.2344**	**8.0000e-005**	**8.4800e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0179**	**0.0179**	**5.0000e-005**		**0.0190**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Alternative 3

Lake Tahoe Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.29	1000sqft	0.12	5,287.00	0
Unrefrigerated Warehouse-No Rail	3.17	1000sqft	0.07	3,174.00	0
Parking Lot	125.00	Space	1.13	50,000.00	0
Golf Course	4.00	Hole	0.80	0.00	0
High Turnover (Sit Down Restaurant)	4.38	1000sqft	0.10	4,375.00	0
Hotel	118.00	Room	0.80	85,897.00	0
Racquet Club	6.74	1000sqft	0.80	6,738.00	0
Recreational Swimming Pool	3.44	1000sqft	0.08	3,444.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	414	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CPUC for Liberty Utility in 2013 assuming a 21.7% renewable portfolio and scaling to 2018 based on RPS goal of 33% renewables by 2020.

Land Use - Land uses based on estimates. Restaurant includes kitchen sqft.

Construction Phase - Ground disturbance activities are prohibited October 15 through May 1.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Appx 12 miles to Tahoe Truckee Sierra Disposal Facility. 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc). Max of 120 workers per day.

Demolition - 6081 CY of material to be demolished and hauled. Assume 500 lbs/CY.

Grading - 3.9 acres is total project site

Architectural Coating - Arch Coating sqft calculated separately. Assumes total of 108,915 sqft of non-res space and 125 parking spots to be striped. 163373 sf int. 57538 sf ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Vehicle Trips - Racquet Club represent Golf Course Clubhouse and may overestimate trips somewhat.

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Area Coating - Arch Coating sqft calculated separately. Assumes total of 108,915 sqft of non-res space and 131 parking spots to be striped. 163373 sf int. 57538 sf ext.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use - Racquet Club represent Golf Course Clubhouse

Construction Off-road Equipment Mitigation - watering required under PCAPCD Rule 228. Applying Tier 4 mitigation to reduce NOX emissions.

Mobile Land Use Mitigation -

Area Mitigation - PCAPCD Rule 218 specifies that low-solids coatings should have a max VOC content of 120 g/L. Reducing further to meet PCAPCD cumulative thresholds.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	55,208.00	57,358.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	165,623.00	163,373.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	55208	57538
tblAreaCoating	Area_Nonresidential_Interior	165623	163373
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	15
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	15
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	PhaseEndDate	6/19/2018	8/6/2018
tblConstructionPhase	PhaseEndDate	4/23/2018	5/24/2018
tblConstructionPhase	PhaseStartDate	5/25/2018	7/12/2018
tblConstructionPhase	PhaseStartDate	4/29/2017	5/1/2017
tblConstructionPhase	PhaseStartDate	3/29/2018	5/1/2018
tblGrading	AcresOfGrading	4.00	3.90
tblGrading	AcresOfGrading	0.00	3.90
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	5,290.00	5,287.00
tblLandUse	LandUseSquareFeet	3,170.00	3,174.00
tblLandUse	LandUseSquareFeet	4,380.00	4,375.00
tblLandUse	LandUseSquareFeet	171,336.00	85,897.00
tblLandUse	LandUseSquareFeet	6,740.00	6,738.00
tblLandUse	LandUseSquareFeet	3,440.00	3,444.00

tblLandUse	LotAcreage	27.92	0.80
tblLandUse	LotAcreage	3.93	0.80
tblLandUse	LotAcreage	0.15	0.80
tblProjectCharacteristics	CO2IntensityFactor	0	414
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	VendorTripLength	7.30	35.00
tblTripsAndVMT	WorkerTripNumber	66.00	60.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4169	3.7307	3.1789	5.7400e-003	0.2041	0.1975	0.4016	0.0726	0.1848	0.2575	0.0000	505.7145	505.7145	0.0693	0.0000	507.1689
2018	0.8993	1.1525	1.0547	2.1200e-003	0.0421	0.0602	0.1023	0.0117	0.0565	0.0681	0.0000	182.7645	182.7645	0.0244	0.0000	183.2771
Total	**1.3161**	**4.8832**	**4.2336**	**7.8600e-003**	**0.2462**	**0.2577**	**0.5039**	**0.0843**	**0.2413**	**0.3256**	**0.0000**	**688.4790**	**688.4790**	**0.0937**	**0.0000**	**690.4460**

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	0.1211	1.0384	4.4944	5.7400e-003	0.1546	0.0163	0.1709	0.0501	0.0153	0.0653	0.0000	510.9057	510.9057	0.0697	0.0000	512.3689
2018	0.8105	0.3507	1.6429	2.1200e-003	0.0421	5.6700e-003	0.0478	0.0117	5.3300e-003	0.0170	0.0000	184.7228	184.7228	0.0246	0.0000	185.2384
Total	**0.9315**	**1.3891**	**6.1373**	**7.8600e-003**	**0.1967**	**0.0219**	**0.2187**	**0.0617**	**0.0206**	**0.0823**	**0.0000**	**695.6285**	**695.6285**	**0.0942**	**0.0000**	**697.6072**

	ROG	NOx	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	**29.22**	**71.55**	**-44.97**	**0.00**	**20.09**	**91.49**	**56.61**	**26.76**	**91.46**	**74.71**	**0.00**	**-1.04**	**-1.04**	**-0.60**	**0.00**	**-1.04**

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	0.7356	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6200e-003	6.6200e-003	2.0000e-005	0.0000	7.0000e-003
Energy	0.0136	0.1238	0.1040	7.4000e-004		9.4100e-003	9.4100e-003		9.4100e-003	9.4100e-003	0.0000	316.7259	316.7259	2.5800e-003	2.4700e-003	317.5460
Mobile	1.6909	2.7814	16.3957	0.0207	1.2456	0.0316	1.2771	0.3343	0.0291	0.3634	0.0000	1,544.0982	1,544.0982	0.0850	0.0000	1,545.8821
Waste						0.0000	0.0000		0.0000	0.0000	37.1859	0.0000	37.1859	2.1976	0.0000	83.3360
Water						0.0000	0.0000		0.0000	0.0000	2.0933	29.4679	31.5612	0.2150	5.0800e-003	37.6499
Total	**2.4401**	**2.9052**	**16.5031**	**0.0214**	**1.2456**	**0.0410**	**1.2865**	**0.3343**	**0.0385**	**0.3728**	**39.2792**	**1,890.2986**	**1,929.5778**	**2.5002**	**7.5500e-003**	**1,984.4210**

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	0.6287	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6200e-003	6.6200e-003	2.0000e-005	0.0000	7.0000e-003
Energy	0.0136	0.1238	0.1040	7.4000e-004		9.4100e-003	9.4100e-003		9.4100e-003	9.4100e-003	0.0000	316.7259	316.7259	2.5800e-003	2.4700e-003	317.5460
Mobile	1.6909	2.7814	16.3957	0.0207	1.2456	0.0316	1.2771	0.3343	0.0291	0.3634	0.0000	1,544.0982	1,544.0982	0.0850	0.0000	1,545.8821
Waste						0.0000	0.0000		0.0000	0.0000	37.1859	0.0000	37.1859	2.1976	0.0000	83.3360
Water						0.0000	0.0000		0.0000	0.0000	2.0933	29.4679	31.5612	0.2150	5.0800e-003	37.6499
Total	**2.3331**	**2.9052**	**16.5031**	**0.0214**	**1.2456**	**0.0410**	**1.2865**	**0.3343**	**0.0385**	**0.3728**	**39.2792**	**1,890.2986**	**1,929.5778**	**2.5002**	**7.5500e-003**	**1,984.4210**

	ROG	NOx	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	**4.38**	**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	3/27/2017	4/21/2017	5	20	
2	Site Preparation	Site Preparation	4/22/2017	4/28/2017	5	5	
3	Grading	Grading	5/1/2017	5/10/2017	5	8	
4	Building Construction - Part 1	Building Construction	5/11/2017	3/28/2018	5	230	
5	Paving	Paving	5/1/2018	5/24/2018	5	18	
6	Architectural Coating	Architectural Coating	7/12/2018	8/6/2018	5	18	

Acres of Grading (Site Preparation Phase): 3.9

Acres of Grading (Grading Phase): 3.9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 163,373; Non-Residential Outdoor: 57,358 (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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Part 1	Cranes	1	7.00	226	0.29
Building Construction - Part 1	Forklifts	3	8.00	89	0.20
Building Construction - Part 1	Generator Sets	1	8.00	84	0.74
Building Construction - Part 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Part 1	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	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	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Part 1	9	60.00	26.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0165	0.0000	0.0165	2.5000e-003	0.0000	2.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8292
Total	**0.0405**	**0.4270**	**0.3389**	**4.0000e-004**	**0.0165**	**0.0213**	**0.0378**	**2.5000e-003**	**0.0198**	**0.0223**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8292**

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	3.0200e-003	0.0259	0.0434	7.0000e-005	2.6400e-003	2.9000e-004	2.9300e-003	6.9000e-004	2.6000e-004	9.6000e-004	0.0000	6.0439	6.0439	4.0000e-005	0.0000	6.0448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	1.6200e-003	0.0207	3.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.1306	2.1306	1.4000e-004	0.0000	2.1335
Total	**4.4500e-003**	**0.0275**	**0.0642**	**1.0000e-004**	**7.0400e-003**	**3.2000e-004**	**7.3500e-003**	**1.8200e-003**	**2.8000e-004**	**2.1100e-003**	**0.0000**	**8.1745**	**8.1745**	**1.8000e-004**	**0.0000**	**8.1783**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					7.4300e-003	0.0000	7.4300e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7400e-003	0.0205	0.2383	4.0000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291
Total	**4.7400e-003**	**0.0205**	**0.2383**	**4.0000e-004**	**7.4300e-003**	**6.3000e-004**	**8.0600e-003**	**1.1300e-003**	**6.3000e-004**	**1.7600e-003**	**0.0000**	**36.6182**	**36.6182**	**0.0101**	**0.0000**	**36.8291**

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	3.0200e-003	0.0259	0.0434	7.0000e-005	2.6400e-003	2.9000e-004	2.9300e-003	6.9000e-004	2.6000e-004	9.6000e-004	0.0000	6.0439	6.0439	4.0000e-005	0.0000	6.0448
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4300e-003	1.6200e-003	0.0207	3.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1300e-003	2.0000e-005	1.1500e-003	0.0000	2.1306	2.1306	1.4000e-004	0.0000	2.1335
Total	**4.4500e-003**	**0.0275**	**0.0642**	**1.0000e-004**	**7.0400e-003**	**3.2000e-004**	**7.3500e-003**	**1.8200e-003**	**2.8000e-004**	**2.1100e-003**	**0.0000**	**8.1745**	**8.1745**	**1.8000e-004**	**0.0000**	**8.1783**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0472	0.0000	0.0472	0.0251	0.0000	0.0251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-004		6.8900e-003	6.8900e-003		6.3300e-003	6.3300e-003	0.0000	9.0789	9.0789	2.7800e-003	0.0000	9.1373
Total	**0.0121**	**0.1294**	**0.0985**	**1.0000e-004**	**0.0472**	**6.8900e-003**	**0.0541**	**0.0251**	**6.3300e-003**	**0.0314**	**0.0000**	**9.0789**	**9.0789**	**2.7800e-003**	**0.0000**	**9.1373**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	4.9000e-004	6.2200e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.6392	0.6392	4.0000e-005	0.0000	0.6401
Total	**4.3000e-004**	**4.9000e-004**	**6.2200e-003**	**1.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**0.6392**	**0.6392**	**4.0000e-005**	**0.0000**	**0.6401**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0213	0.0000	0.0213	0.0113	0.0000	0.0113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1900e-003	5.1500e-003	0.0531	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	9.0788	9.0788	2.7800e-003	0.0000	9.1373
Total	**1.1900e-003**	**5.1500e-003**	**0.0531**	**1.0000e-004**	**0.0213**	**1.6000e-004**	**0.0214**	**0.0113**	**1.6000e-004**	**0.0114**	**0.0000**	**9.0788**	**9.0788**	**2.7800e-003**	**0.0000**	**9.1373**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	4.9000e-004	6.2200e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.6392	0.6392	4.0000e-005	0.0000	0.6401
Total	**4.3000e-004**	**4.9000e-004**	**6.2200e-003**	**1.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**0.6392**	**0.6392**	**4.0000e-005**	**0.0000**	**0.6401**

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-004		8.1600e-003	8.1600e-003		7.5000e-003	7.5000e-003	0.0000	11.0447	11.0447	3.3800e-003	0.0000	11.1157
Total	**0.0138**	**0.1439**	**0.1015**	**1.2000e-004**	**0.0262**	**8.1600e-003**	**0.0343**	**0.0135**	**7.5000e-003**	**0.0210**	**0.0000**	**11.0447**	**11.0447**	**3.3800e-003**	**0.0000**	**11.1157**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	3.2000e-004	4.1400e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4261	0.4261	3.0000e-005	0.0000	0.4267
Total	**2.9000e-004**	**3.2000e-004**	**4.1400e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4261**	**0.4261**	**3.0000e-005**	**0.0000**	**0.4267**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0118	0.0000	0.0118	6.0600e-003	0.0000	6.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	6.2800e-003	0.0786	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	11.0447	11.0447	3.3800e-003	0.0000	11.1157
Total	**1.4500e-003**	**6.2800e-003**	**0.0786**	**1.2000e-004**	**0.0118**	**1.9000e-004**	**0.0120**	**6.0600e-003**	**1.9000e-004**	**6.2500e-003**	**0.0000**	**11.0447**	**11.0447**	**3.3800e-003**	**0.0000**	**11.1157**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	3.2000e-004	4.1400e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4261	0.4261	3.0000e-005	0.0000	0.4267
Total	**2.9000e-004**	**3.2000e-004**	**4.1400e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4261**	**0.4261**	**3.0000e-005**	**0.0000**	**0.4267**

3.5 Building Construction - Part 1 - 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	0.2591	2.2049	1.5138	2.2400e-003		0.1487	0.1487		0.1397	0.1397	0.0000	199.9651	199.9651	0.0492	0.0000	200.9986
Total	**0.2591**	**2.2049**	**1.5138**	**2.2400e-003**		**0.1487**	**0.1487**		**0.1397**	**0.1397**	**0.0000**	**199.9651**	**199.9651**	**0.0492**	**0.0000**	**200.9986**

3.5 Building Construction - Part 1 - 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	0.0000
Vendor	0.0624	0.7702	0.7056	2.2800e-003	0.0660	0.0117	0.0777	0.0188	0.0108	0.0296	0.0000	204.1871	204.1871	1.2800e-003	0.0000	204.2140
Worker	0.0239	0.0270	0.3461	5.0000e-004	0.0394	4.4000e-004	0.0398	0.0105	4.0000e-004	0.0109	0.0000	35.5808	35.5808	2.3000e-003	0.0000	35.6292
Total	**0.0862**	**0.7972**	**1.0516**	**2.7800e-003**	**0.1054**	**0.0122**	**0.1175**	**0.0293**	**0.0112**	**0.0405**	**0.0000**	**239.7679**	**239.7679**	**3.5800e-003**	**0.0000**	**239.8432**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0223	0.1809	2.9983	2.2400e-003		2.7800e-003	2.7800e-003		2.7800e-003	2.7800e-003	0.0000	205.1562	205.1562	0.0496	0.0000	206.1986
Total	**0.0223**	**0.1809**	**2.9983**	**2.2400e-003**		**2.7800e-003**	**2.7800e-003**		**2.7800e-003**	**2.7800e-003**	**0.0000**	**205.1562**	**205.1562**	**0.0496**	**0.0000**	**206.1986**

3.5 Building Construction - Part 1 - 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	0.0000
Vendor	0.0624	0.7702	0.7056	2.2800e-003	0.0660	0.0117	0.0777	0.0188	0.0108	0.0296	0.0000	204.1871	204.1871	1.2800e-003	0.0000	204.2140
Worker	0.0239	0.0270	0.3461	5.0000e-004	0.0394	4.4000e-004	0.0398	0.0105	4.0000e-004	0.0109	0.0000	35.5808	35.5808	2.3000e-003	0.0000	35.6292
Total	**0.0862**	**0.7972**	**1.0516**	**2.7800e-003**	**0.1054**	**0.0122**	**0.1175**	**0.0293**	**0.0112**	**0.0405**	**0.0000**	**239.7679**	**239.7679**	**3.5800e-003**	**0.0000**	**239.8432**

3.5 Building Construction - Part 1 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0841	0.7327	0.5523	8.4000e-004		0.0471	0.0471		0.0443	0.0443	0.0000	74.5825	74.5825	0.0183	0.0000	74.9657
Total	**0.0841**	**0.7327**	**0.5523**	**8.4000e-004**		**0.0471**	**0.0471**		**0.0443**	**0.0443**	**0.0000**	**74.5825**	**74.5825**	**0.0183**	**0.0000**	**74.9657**

3.5 Building Construction - Part 1 - 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	0.0000
Vendor	0.0221	0.2623	0.2452	8.6000e-004	0.0249	4.1500e-003	0.0290	7.1100e-003	3.8100e-003	0.0109	0.0000	75.8703	75.8703	4.7000e-004	0.0000	75.8802
Worker	7.7700e-003	9.1800e-003	0.1125	1.9000e-004	0.0149	1.6000e-004	0.0150	3.9500e-003	1.5000e-004	4.1000e-003	0.0000	12.9195	12.9195	7.9000e-004	0.0000	12.9360
Total	**0.0299**	**0.2714**	**0.3577**	**1.0500e-003**	**0.0398**	**4.3100e-003**	**0.0441**	**0.0111**	**3.9600e-003**	**0.0150**	**0.0000**	**88.7898**	**88.7898**	**1.2600e-003**	**0.0000**	**88.8161**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.4000e-003	0.0682	1.1311	8.4000e-004		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	76.5408	76.5408	0.0184	0.0000	76.9271
Total	**8.4000e-003**	**0.0682**	**1.1311**	**8.4000e-004**		**1.0500e-003**	**1.0500e-003**		**1.0500e-003**	**1.0500e-003**	**0.0000**	**76.5408**	**76.5408**	**0.0184**	**0.0000**	**76.9271**

3.5 Building Construction - Part 1 - 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	0.0000
Vendor	0.0221	0.2623	0.2452	8.6000e-004	0.0249	4.1500e-003	0.0290	7.1100e-003	3.8100e-003	0.0109	0.0000	75.8703	75.8703	4.7000e-004	0.0000	75.8802
Worker	7.7700e-003	9.1800e-003	0.1125	1.9000e-004	0.0149	1.6000e-004	0.0150	3.9500e-003	1.5000e-004	4.1000e-003	0.0000	12.9195	12.9195	7.9000e-004	0.0000	12.9360
Total	**0.0299**	**0.2714**	**0.3577**	**1.0500e-003**	**0.0398**	**4.3100e-003**	**0.0441**	**0.0111**	**3.9600e-003**	**0.0150**	**0.0000**	**88.7898**	**88.7898**	**1.2600e-003**	**0.0000**	**88.8161**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.1289	0.1104	1.7000e-004		7.4500e-003	7.4500e-003		6.8700e-003	6.8700e-003	0.0000	15.0641	15.0641	4.5600e-003	0.0000	15.1599
Paving	1.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0141**	**0.1289**	**0.1104**	**1.7000e-004**		**7.4500e-003**	**7.4500e-003**		**6.8700e-003**	**6.8700e-003**	**0.0000**	**15.0641**	**15.0641**	**4.5600e-003**	**0.0000**	**15.1599**

3.6 Paving - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	8.7000e-004	0.0107	2.0000e-005	1.4200e-003	2.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2304	1.2304	7.0000e-005	0.0000	1.2320
Total	**7.4000e-004**	**8.7000e-004**	**0.0107**	**2.0000e-005**	**1.4200e-003**	**2.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2304**	**1.2304**	**7.0000e-005**	**0.0000**	**1.2320**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9400e-003	8.4300e-003	0.1199	1.7000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	15.0641	15.0641	4.5600e-003	0.0000	15.1599
Paving	1.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.4200e-003**	**8.4300e-003**	**0.1199**	**1.7000e-004**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**15.0641**	**15.0641**	**4.5600e-003**	**0.0000**	**15.1599**

3.6 Paving - 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	8.7000e-004	0.0107	2.0000e-005	1.4200e-003	2.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2304	1.2304	7.0000e-005	0.0000	1.2320
Total	**7.4000e-004**	**8.7000e-004**	**0.0107**	**2.0000e-005**	**1.4200e-003**	**2.0000e-005**	**1.4300e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.2304**	**1.2304**	**7.0000e-005**	**0.0000**	**1.2320**

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	0.7673					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
Total	**0.7700**	**0.0181**	**0.0167**	**3.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.3500e-003**	**1.3500e-003**	**0.0000**	**2.2979**	**2.2979**	**2.2000e-004**	**0.0000**	**2.3025**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	5.7000e-004	6.9700e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7998	0.7998	5.0000e-005	0.0000	0.8008
Total	**4.8000e-004**	**5.7000e-004**	**6.9700e-003**	**1.0000e-005**	**9.2000e-004**	**1.0000e-005**	**9.3000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7998**	**0.7998**	**5.0000e-005**	**0.0000**	**0.8008**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7673					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	1.1600e-003	0.0165	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
Total	**0.7676**	**1.1600e-003**	**0.0165**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.2979**	**2.2979**	**2.2000e-004**	**0.0000**	**2.3025**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	5.7000e-004	6.9700e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7998	0.7998	5.0000e-005	0.0000	0.8008
Total	**4.8000e-004**	**5.7000e-004**	**6.9700e-003**	**1.0000e-005**	**9.2000e-004**	**1.0000e-005**	**9.3000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7998**	**0.7998**	**5.0000e-005**	**0.0000**	**0.8008**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6909	2.7814	16.3957	0.0207	1.2456	0.0316	1.2771	0.3343	0.0291	0.3634	0.0000	1,544.0982	1,544.0982	0.0850	0.0000	1,545.8821
Unmitigated	1.6909	2.7814	16.3957	0.0207	1.2456	0.0316	1.2771	0.3343	0.0291	0.3634	0.0000	1,544.0982	1,544.0982	0.0850	0.0000	1,545.8821

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	58.24	12.54	5.18	105,469	105,469
Golf Course	142.96	162.52	158.12	267,333	267,333
High Turnover (Sit Down Restaurant)	556.92	693.66	577.46	672,242	672,242
Hotel	964.06	966.42	702.10	1,761,187	1,761,187
Parking Lot	0.00	0.00	0.00		
Racquet Club	221.95	140.66	180.16	347,620	347,620
Recreational Swimming Pool	113.28	71.79	91.95	188,510	188,510
Unrefrigerated Warehouse-No Rail	8.21	8.21	8.21	23,970	23,970
Total	2,065.62	2,055.80	1,723.19	3,366,330	3,366,330

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
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
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	181.9788	181.9788	0.0000	0.0000	181.9788
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	181.9788	181.9788	0.0000	0.0000	181.9788
NaturalGas Mitigated	0.0136	0.1238	0.1040	7.4000e-004		9.4100e-003	9.4100e-003		9.4100e-003	9.4100e-003	0.0000	134.7471	134.7471	2.5800e-003	2.4700e-003	135.5671
NaturalGas Unmitigated	0.0136	0.1238	0.1040	7.4000e-004		9.4100e-003	9.4100e-003		9.4100e-003	9.4100e-003	0.0000	134.7471	134.7471	2.5800e-003	2.4700e-003	135.5671

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					
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	514719	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4674	27.4674	5.3000e-004	5.0000e-004	27.6345
Hotel	1.87685e+006	0.0101	0.0920	0.0773	5.5000e-004		6.9900e-003	6.9900e-003		6.9900e-003	6.9900e-003	0.0000	100.1558	100.1558	1.9200e-003	1.8400e-003	100.7654
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	24795.8	1.3000e-004	1.2200e-003	1.0200e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3232	1.3232	3.0000e-005	2.0000e-005	1.3313
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	108701	5.9000e-004	5.3300e-003	4.4800e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.8007	5.8007	1.1000e-004	1.1000e-004	5.8360
Total		**0.0136**	**0.1238**	**0.1040**	**7.4000e-004**		**9.4000e-003**	**9.4000e-003**		**9.4000e-003**	**9.4000e-003**	**0.0000**	**134.7471**	**134.7471**	**2.5900e-003**	**2.4700e-003**	**135.5671**

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					
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	514719	2.7800e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4674	27.4674	5.3000e-004	5.0000e-004	27.6345
Hotel	1.87685e+006	0.0101	0.0920	0.0773	5.5000e-004		6.9900e-003	6.9900e-003		6.9900e-003	6.9900e-003	0.0000	100.1558	100.1558	1.9200e-003	1.8400e-003	100.7654
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	24795.8	1.3000e-004	1.2200e-003	1.0200e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3232	1.3232	3.0000e-005	2.0000e-005	1.3313
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	108701	5.9000e-004	5.3300e-003	4.4800e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.8007	5.8007	1.1000e-004	1.1000e-004	5.8360
Total		**0.0136**	**0.1238**	**0.1040**	**7.4000e-004**		**9.4000e-003**	**9.4000e-003**		**9.4000e-003**	**9.4000e-003**	**0.0000**	**134.7471**	**134.7471**	**2.5900e-003**	**2.4700e-003**	**135.5671**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	65294.4	12.2615	0.0000	0.0000	12.2615
Golf Course	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	114100	21.4265	0.0000	0.0000	21.4265
Hotel	713804	134.0433	0.0000	0.0000	134.0433
Parking Lot	44000	8.2626	0.0000	0.0000	8.2626
Racquet Club	31870.7	5.9849	0.0000	0.0000	5.9849
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**181.9788**	**0.0000**	**0.0000**	**181.9788**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	65294.4	12.2615	0.0000	0.0000	12.2615
Golf Course	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	114100	21.4265	0.0000	0.0000	21.4265
Hotel	713804	134.0433	0.0000	0.0000	134.0433
Parking Lot	44000	8.2626	0.0000	0.0000	8.2626
Racquet Club	31870.7	5.9849	0.0000	0.0000	5.9849
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**181.9788**	**0.0000**	**0.0000**	**181.9788**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6287	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6200e-003	6.6200e-003	2.0000e-005	0.0000	7.0000e-003
Unmitigated	0.7356	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6200e-003	6.6200e-003	2.0000e-005	0.0000	7.0000e-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	0.1147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6200e-003	6.6200e-003	2.0000e-005	0.0000	7.0000e-003
Total	**0.7356**	**3.0000e-005**	**3.4500e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.6200e-003**	**6.6200e-003**	**2.0000e-005**	**0.0000**	**7.0000e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	7.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.6200e-003	6.6200e-003	2.0000e-005	0.0000	7.0000e-003
Total	**0.6287**	**3.0000e-005**	**3.4500e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.6200e-003**	**6.6200e-003**	**2.0000e-005**	**0.0000**	**7.0000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.5612	0.2150	5.0800e-003	37.6499
Unmitigated	31.5612	0.2150	5.0800e-003	37.6499

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.940212 / 0.576259	1.6324	0.0306	7.2000e-004	2.5000
Golf Course	0 / 33.2714	21.8678	0.0000	0.0000	21.8678
High Turnover (Sit Down Restaurant)	1.32948 / 0.0848603	1.8285	0.0433	1.0200e-003	3.0553
Hotel	2.99328 / 0.332587	4.2097	0.0975	2.3000e-003	6.9719
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.398625 / 0.244318	0.6921	0.0130	3.1000e-004	1.0600
Recreational Swimming Pool	0.203452 / 0.124697	0.3532	6.6300e-003	1.6000e-004	0.5410
Unrefrigerated Warehouse-No Rail	0.733062 / 0	0.9774	0.0239	5.6000e-004	1.6539
Total		**31.5612**	**0.2150**	**5.0700e-003**	**37.6499**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.940212 / 0.576259	1.6324	0.0306	7.2000e-004	2.5000
Golf Course	0 / 33.2714	21.8678	0.0000	0.0000	21.8678
High Turnover (Sit Down Restaurant)	1.32948 / 0.0848603	1.8285	0.0433	1.0200e-003	3.0553
Hotel	2.99328 / 0.332587	4.2097	0.0975	2.3000e-003	6.9719
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.398625 / 0.244318	0.6921	0.0130	3.1000e-004	1.0600
Recreational Swimming Pool	0.203452 / 0.124697	0.3532	6.6300e-003	1.6000e-004	0.5410
Unrefrigerated Warehouse-No Rail	0.733062 / 0	0.9774	0.0239	5.6000e-004	1.6539
Total		**31.5612**	**0.2150**	**5.0700e-003**	**37.6499**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	37.1859	2.1976	0.0000	83.3360
Unmitigated	37.1859	2.1976	0.0000	83.3360

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.92	0.9987	0.0590	0.0000	2.2382
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
High Turnover (Sit Down Restaurant)	52.12	10.5799	0.6253	0.0000	23.7102
Hotel	64.61	13.1153	0.7751	0.0000	29.3921
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	38.42	7.7989	0.4609	0.0000	17.4779
Recreational Swimming Pool	19.61	3.9807	0.2353	0.0000	8.9209
Unrefrigerated Warehouse-No Rail	2.98	0.6049	0.0358	0.0000	1.3557
Total		**37.1859**	**2.1976**	**0.0000**	**83.3360**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.92	0.9987	0.0590	0.0000	2.2382
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
High Turnover (Sit Down Restaurant)	52.12	10.5799	0.6253	0.0000	23.7102
Hotel	64.61	13.1153	0.7751	0.0000	29.3921
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	38.42	7.7989	0.4609	0.0000	17.4779
Recreational Swimming Pool	19.61	3.9807	0.2353	0.0000	8.9209
Unrefrigerated Warehouse-No Rail	2.98	0.6049	0.0358	0.0000	1.3557
Total		**37.1859**	**2.1976**	**0.0000**	**83.3360**

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Alternative 3

Lake Tahoe Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.29	1000sqft	0.12	5,287.00	0
Unrefrigerated Warehouse-No Rail	3.17	1000sqft	0.07	3,174.00	0
Parking Lot	125.00	Space	1.13	50,000.00	0
Golf Course	4.00	Hole	0.80	0.00	0
High Turnover (Sit Down Restaurant)	4.38	1000sqft	0.10	4,375.00	0
Hotel	118.00	Room	0.80	85,897.00	0
Racquet Club	6.74	1000sqft	0.80	6,738.00	0
Recreational Swimming Pool	3.44	1000sqft	0.08	3,444.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	414	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CPUC for Liberty Utility in 2013 assuming a 21.7% renewable portfolio and scaling to 2018 based on RPS goal of 33% renewables by 2020.

Land Use - Land uses based on estimates. Restaurant includes kitchen sqft.

Construction Phase - Ground disturbance activities are prohibited October 15 through May 1.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Appx 12 miles to Tahoe Truckee Sierra Disposal Facility. 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc). Max of 120 workers per day.

Demolition - 6081 CY of material to be demolished and hauled. Assume 500 lbs/CY.

Grading - 3.9 acres is total project site

Architectural Coating - Arch Coating sqft calculated separately. Assumes total of 108,915 sqft of non-res space and 125 parking spots to be striped. 163373 sf int. 57538 sf ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Vehicle Trips - Racquet Club represent Golf Course Clubhouse and may overestimate trips somewhat.

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Area Coating - Arch Coating sqft calculated separately. Assumes total of 108,915 sqft of non-res space and 131 parking spots to be striped. 163373 sf int. 57538 sf ext.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use - Racquet Club represent Golf Course Clubhouse

Construction Off-road Equipment Mitigation - watering required under PCAPCD Rule 228. Applying Tier 4 mitigation to reduce NOX emissions.

Mobile Land Use Mitigation -

Area Mitigation - PCAPCD Rule 218 specifies that low-solids coatings should have a max VOC content of 120 g/L. Reducing further to meet PCAPCD cumulative thresholds.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	55,208.00	57,358.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	165,623.00	163,373.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	55208	57538
tblAreaCoating	Area_Nonresidential_Interior	165623	163373
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	15
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	15
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	15
tblConstEquipMitigation	FuelType	Diesel	CNG
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	PhaseEndDate	6/19/2018	8/6/2018
tblConstructionPhase	PhaseEndDate	4/23/2018	5/24/2018
tblConstructionPhase	PhaseStartDate	5/25/2018	7/12/2018
tblConstructionPhase	PhaseStartDate	4/29/2017	5/1/2017
tblConstructionPhase	PhaseStartDate	3/29/2018	5/1/2018
tblGrading	AcresOfGrading	4.00	3.90
tblGrading	AcresOfGrading	0.00	3.90
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	5,290.00	5,287.00
tblLandUse	LandUseSquareFeet	3,170.00	3,174.00
tblLandUse	LandUseSquareFeet	4,380.00	4,375.00
tblLandUse	LandUseSquareFeet	171,336.00	85,897.00
tblLandUse	LandUseSquareFeet	6,740.00	6,738.00
tblLandUse	LandUseSquareFeet	3,440.00	3,444.00

tblLandUse	LotAcreage	27.92	0.80
tblLandUse	LotAcreage	3.93	0.80
tblLandUse	LotAcreage	0.15	0.80
tblProjectCharacteristics	CO2IntensityFactor	0	414
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	HaulingTripLength	20.00	12.00
tblTripsAndVMT	VendorTripLength	7.30	35.00
tblTripsAndVMT	WorkerTripNumber	66.00	60.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	4.9949	51.9239	41.5934	0.0600	19.4462	2.7574	22.2036	10.1615	2.5368	12.6983	0.0000	5,805.9174	5,805.9174	1.2448	0.0000	5,832.0580
2018	85.6051	31.6698	26.7433	0.0600	1.3127	1.6308	2.9435	0.3637	1.5304	1.8941	0.0000	5,717.9172	5,717.9172	0.6825	0.0000	5,732.2504
Total	**90.6000**	**83.5937**	**68.3366**	**0.1201**	**20.7589**	**4.3882**	**25.1471**	**10.5252**	**4.0672**	**14.5924**	**0.0000**	**11,523.8346**	**11,523.8346**	**1.9273**	**0.0000**	**11,564.3084**

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	1.2172	11.4811	46.1947	0.0600	9.0548	0.1790	9.1214	4.6505	0.1673	4.7169	0.0000	5,874.4512	5,874.4512	1.2448	0.0000	5,900.5918
2018	85.3362	10.5751	45.1187	0.0600	1.3127	0.1698	1.4825	0.3637	0.1589	0.5225	0.0000	5,786.4510	5,786.4510	0.6875	0.0000	5,800.8880
Total	**86.5533**	**22.0562**	**91.3134**	**0.1201**	**10.3675**	**0.3488**	**10.6039**	**5.0142**	**0.3262**	**5.2394**	**0.0000**	**11,660.9022**	**11,660.9022**	**1.9323**	**0.0000**	**11,701.4799**

	ROG	NOx	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	**4.47**	**73.61**	**-33.62**	**0.00**	**50.06**	**92.05**	**57.83**	**52.36**	**91.98**	**64.09**	**0.00**	**-1.19**	**-1.19**	**-0.26**	**0.00**	**-1.19**

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	4.0317	2.6000e-004	0.0280	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0591	0.0591	1.6000e-004		0.0625
Energy	0.0746	0.6782	0.5697	4.0700e-003		0.0516	0.0516		0.0516	0.0516		813.8807	813.8807	0.0156	0.0149	818.8338
Mobile	9.2367	15.7707	81.1581	0.1239	7.8112	0.1896	8.0007	2.0889	0.1746	2.2636		10,230.8198	10,230.8198	0.5642		10,242.6670
Total	**13.3430**	**16.4492**	**81.7558**	**0.1280**	**7.8112**	**0.2412**	**8.0524**	**2.0889**	**0.2263**	**2.3152**		**11,044.7595**	**11,044.7595**	**0.5799**	**0.0149**	**11,061.5633**

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	3.4455	2.6000e-004	0.0280	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0591	0.0591	1.6000e-004		0.0625
Energy	0.0746	0.6782	0.5697	4.0700e-003		0.0516	0.0516		0.0516	0.0516		813.8807	813.8807	0.0156	0.0149	818.8338
Mobile	9.2367	15.7707	81.1581	0.1239	7.8112	0.1896	8.0007	2.0889	0.1746	2.2636		10,230.8198	10,230.8198	0.5642		10,242.6670
Total	**12.7568**	**16.4492**	**81.7558**	**0.1280**	**7.8112**	**0.2412**	**8.0524**	**2.0889**	**0.2263**	**2.3152**		**11,044.7595**	**11,044.7595**	**0.5799**	**0.0149**	**11,061.5633**

	ROG	NOx	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	**4.39**	**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	3/27/2017	4/21/2017	5	20	
2	Site Preparation	Site Preparation	4/22/2017	4/28/2017	5	5	
3	Grading	Grading	5/1/2017	5/10/2017	5	8	
4	Building Construction - Part 1	Building Construction	5/11/2017	3/28/2018	5	230	
5	Paving	Paving	5/1/2018	5/24/2018	5	18	
6	Architectural Coating	Architectural Coating	7/12/2018	8/6/2018	5	18	

Acres of Grading (Site Preparation Phase): 3.9

Acres of Grading (Grading Phase): 3.9

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 163,373; Non-Residential Outdoor: 57,358 (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	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Part 1	Cranes	1	7.00	226	0.29
Building Construction - Part 1	Forklifts	3	8.00	89	0.20
Building Construction - Part 1	Generator Sets	1	8.00	84	0.74
Building Construction - Part 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Part 1	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	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	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	150.00	10.80	7.30	12.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Part 1	9	60.00	26.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Alternative Fuel for Construction Equipment

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6521	0.0000	1.6521	0.2502	0.0000	0.2502			0.0000			0.0000
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**4.0482**	**42.6971**	**33.8934**	**0.0399**	**1.6521**	**2.1252**	**3.7773**	**0.2502**	**1.9797**	**2.2299**		**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	0.2645	2.5327	2.9758	6.7500e-003	0.2759	0.0287	0.3046	0.0722	0.0264	0.0986		667.3271	667.3271	4.5000e-003		667.4216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1306	0.1421	1.8303	2.9800e-003	0.4606	2.6300e-003	0.4633	0.1179	2.4200e-003	0.1204		234.3029	234.3029	0.0152		234.6224
Total	**0.3951**	**2.6748**	**4.8061**	**9.7300e-003**	**0.7365**	**0.0313**	**0.7678**	**0.1901**	**0.0288**	**0.2189**		**901.6300**	**901.6300**	**0.0197**		**902.0439**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7435	0.0000	0.7435	0.1126	0.0000	0.1126			0.0000			0.0000
Off-Road	0.4739	2.0535	23.8257	0.0399		0.0632	0.0632		0.0632	0.0632	0.0000	4,036.4674	4,036.4674	1.1073		4,059.7211
Total	**0.4739**	**2.0535**	**23.8257**	**0.0399**	**0.7435**	**0.0632**	**0.8066**	**0.1126**	**0.0632**	**0.1758**	**0.0000**	**4,036.4674**	**4,036.4674**	**1.1073**		**4,059.7211**

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	0.2645	2.5327	2.9758	6.7500e-003	0.2759	0.0287	0.3046	0.0722	0.0264	0.0986		667.3271	667.3271	4.5000e-003		667.4216
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1306	0.1421	1.8303	2.9800e-003	0.4606	2.6300e-003	0.4633	0.1179	2.4200e-003	0.1204		234.3029	234.3029	0.0152		234.6224
Total	**0.3951**	**2.6748**	**4.8061**	**9.7300e-003**	**0.7365**	**0.0313**	**0.7678**	**0.1901**	**0.0288**	**0.2189**		**901.6300**	**901.6300**	**0.0197**		**902.0439**

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.8935	0.0000	18.8935	10.0200	0.0000	10.0200			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**4.8382**	**51.7535**	**39.3970**	**0.0391**	**18.8935**	**2.7542**	**21.6477**	**10.0200**	**2.5339**	**12.5539**		**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1567	0.1705	2.1963	3.5800e-003	0.5528	3.1600e-003	0.5559	0.1415	2.9000e-003	0.1444		281.1635	281.1635	0.0183		281.5468
Total	**0.1567**	**0.1705**	**2.1963**	**3.5800e-003**	**0.5528**	**3.1600e-003**	**0.5559**	**0.1415**	**2.9000e-003**	**0.1444**		**281.1635**	**281.1635**	**0.0183**		**281.5468**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.5021	0.0000	8.5021	4.5090	0.0000	4.5090			0.0000			0.0000
Off-Road	0.4757	2.0615	21.2415	0.0391		0.0634	0.0634		0.0634	0.0634	0.0000	4,003.0859	4,003.0859	1.2265		4,028.8432
Total	**0.4757**	**2.0615**	**21.2415**	**0.0391**	**8.5021**	**0.0634**	**8.5655**	**4.5090**	**0.0634**	**4.5724**	**0.0000**	**4,003.0859**	**4,003.0859**	**1.2265**		**4,028.8432**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1567	0.1705	2.1963	3.5800e-003	0.5528	3.1600e-003	0.5559	0.1415	2.9000e-003	0.1444		281.1635	281.1635	0.0183		281.5468
Total	**0.1567**	**0.1705**	**2.1963**	**3.5800e-003**	**0.5528**	**3.1600e-003**	**0.5559**	**0.1415**	**2.9000e-003**	**0.1444**		**281.1635**	**281.1635**	**0.0183**		**281.5468**

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					6.5391	0.0000	6.5391	3.3661	0.0000	3.3661			0.0000			0.0000
Off-Road	3.4555	35.9825	25.3812	0.0297		2.0388	2.0388		1.8757	1.8757		3,043.6667	3,043.6667	0.9326		3,063.2507
Total	**3.4555**	**35.9825**	**25.3812**	**0.0297**	**6.5391**	**2.0388**	**8.5779**	**3.3661**	**1.8757**	**5.2418**		**3,043.6667**	**3,043.6667**	**0.9326**		**3,063.2507**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0653	0.0710	0.9151	1.4900e-003	0.1232	1.3200e-003	0.1245	0.0327	1.2100e-003	0.0339		117.1515	117.1515	7.6100e-003		117.3112
Total	**0.0653**	**0.0710**	**0.9151**	**1.4900e-003**	**0.1232**	**1.3200e-003**	**0.1245**	**0.0327**	**1.2100e-003**	**0.0339**		**117.1515**	**117.1515**	**7.6100e-003**		**117.3112**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9426	0.0000	2.9426	1.5147	0.0000	1.5147			0.0000			0.0000
Off-Road	0.3625	1.5709	19.6566	0.0297		0.0483	0.0483		0.0483	0.0483	0.0000	3,043.6667	3,043.6667	0.9326		3,063.2507
Total	**0.3625**	**1.5709**	**19.6566**	**0.0297**	**2.9426**	**0.0483**	**2.9909**	**1.5147**	**0.0483**	**1.5631**	**0.0000**	**3,043.6667**	**3,043.6667**	**0.9326**		**3,063.2507**

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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0653	0.0710	0.9151	1.4900e-003	0.1232	1.3200e-003	0.1245	0.0327	1.2100e-003	0.0339		117.1515	117.1515	7.6100e-003		117.3112
Total	**0.0653**	**0.0710**	**0.9151**	**1.4900e-003**	**0.1232**	**1.3200e-003**	**0.1245**	**0.0327**	**1.2100e-003**	**0.0339**		**117.1515**	**117.1515**	**7.6100e-003**		**117.3112**

3.5 Building Construction - Part 1 - 2017

Unmitigated Construction On-Site

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

3.5 Building Construction - Part 1 - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6894	9.0308	6.6261	0.0273	0.8196	0.1405	0.9601	0.2329	0.1293	0.3621		2,697.5063	2,697.5063	0.0168		2,697.8597
Worker	0.2612	0.2841	3.6605	5.9600e-003	0.4929	5.2700e-003	0.4982	0.1307	4.8400e-003	0.1356		468.6058	468.6058	0.0304		469.2447
Total	**0.9506**	**9.3149**	**10.2867**	**0.0332**	**1.3125**	**0.1458**	**1.4582**	**0.3636**	**0.1341**	**0.4977**		**3,166.1121**	**3,166.1121**	**0.0473**		**3,167.1044**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2666	2.1662	35.9080	0.0268		0.0332	0.0332		0.0332	0.0332	0.0000	2,708.3391	2,708.3391	0.6553		2,722.0993
Total	**0.2666**	**2.1662**	**35.9080**	**0.0268**		**0.0332**	**0.0332**		**0.0332**	**0.0332**	**0.0000**	**2,708.3391**	**2,708.3391**	**0.6553**		**2,722.0993**

3.5 Building Construction - Part 1 - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6894	9.0308	6.6261	0.0273	0.8196	0.1405	0.9601	0.2329	0.1293	0.3621		2,697.5063	2,697.5063	0.0168		2,697.8597
Worker	0.2612	0.2841	3.6605	5.9600e-003	0.4929	5.2700e-003	0.4982	0.1307	4.8400e-003	0.1356		468.6058	468.6058	0.0304		469.2447
Total	**0.9506**	**9.3149**	**10.2867**	**0.0332**	**1.3125**	**0.1458**	**1.4582**	**0.3636**	**0.1341**	**0.4977**		**3,166.1121**	**3,166.1121**	**0.0473**		**3,167.1044**

3.5 Building Construction - Part 1 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387		2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**		**2,609.9390**	**2,609.9390**	**0.6387**		**2,623.3517**

3.5 Building Construction - Part 1 - 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		0.0000
Vendor	0.6479	8.1532	6.0356	0.0273	0.8198	0.1315	0.9514	0.2330	0.1210	0.3539		2,656.9426	2,656.9426	0.0163		2,657.2856
Worker	0.2266	0.2557	3.1751	5.9600e-003	0.4929	5.0200e-003	0.4979	0.1307	4.6300e-003	0.1354		451.0357	451.0357	0.0275		451.6131
Total	**0.8745**	**8.4089**	**9.2106**	**0.0332**	**1.3127**	**0.1365**	**1.4493**	**0.3637**	**0.1256**	**0.4893**		**3,107.9783**	**3,107.9783**	**0.0438**		**3,108.8987**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2666	2.1662	35.9080	0.0268		0.0332	0.0332		0.0332	0.0332	0.0000	2,678.4728	2,678.4728	0.6437		2,691.9893
Total	**0.2666**	**2.1662**	**35.9080**	**0.0268**		**0.0332**	**0.0332**		**0.0332**	**0.0332**	**0.0000**	**2,678.4728**	**2,678.4728**	**0.6437**		**2,691.9893**

3.5 Building Construction - Part 1 - 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		0.0000
Vendor	0.6479	8.1532	6.0356	0.0273	0.8198	0.1315	0.9514	0.2330	0.1210	0.3539		2,656.9426	2,656.9426	0.0163		2,657.2856
Worker	0.2266	0.2557	3.1751	5.9600e-003	0.4929	5.0200e-003	0.4979	0.1307	4.6300e-003	0.1354		451.0357	451.0357	0.0275		451.6131
Total	**0.8745**	**8.4089**	**9.2106**	**0.0332**	**1.3127**	**0.1365**	**1.4493**	**0.3637**	**0.1256**	**0.4893**		**3,107.9783**	**3,107.9783**	**0.0438**		**3,108.8987**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.1645					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.5705**	**14.3192**	**12.2631**	**0.0187**		**0.8272**	**0.8272**		**0.7628**	**0.7628**		**1,845.0348**	**1,845.0348**	**0.5587**		**1,856.7667**

3.6 Paving - 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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0755	0.0852	1.0584	1.9900e-003	0.1643	1.6700e-003	0.1660	0.0436	1.5400e-003	0.0451		150.3452	150.3452	9.1700e-003		150.5377
Total	**0.0755**	**0.0852**	**1.0584**	**1.9900e-003**	**0.1643**	**1.6700e-003**	**0.1660**	**0.0436**	**1.5400e-003**	**0.0451**		**150.3452**	**150.3452**	**9.1700e-003**		**150.5377**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2161	0.9363	13.3248	0.0187		0.0288	0.0288		0.0288	0.0288	0.0000	1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.1645					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3806**	**0.9363**	**13.3248**	**0.0187**		**0.0288**	**0.0288**		**0.0288**	**0.0288**	**0.0000**	**1,845.0348**	**1,845.0348**	**0.5587**		**1,856.7667**

3.6 Paving - 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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0755	0.0852	1.0584	1.9900e-003	0.1643	1.6700e-003	0.1660	0.0436	1.5400e-003	0.0451		150.3452	150.3452	9.1700e-003		150.5377
Total	**0.0755**	**0.0852**	**1.0584**	**1.9900e-003**	**0.1643**	**1.6700e-003**	**0.1660**	**0.0436**	**1.5400e-003**	**0.0451**		**150.3452**	**150.3452**	**9.1700e-003**		**150.5377**

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	85.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	**85.5560**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0491	0.0554	0.6879	1.2900e-003	0.1068	1.0900e-003	0.1079	0.0283	1.0000e-003	0.0293		97.7244	97.7244	5.9600e-003		97.8495
Total	**0.0491**	**0.0554**	**0.6879**	**1.2900e-003**	**0.1068**	**1.0900e-003**	**0.1079**	**0.0283**	**1.0000e-003**	**0.0293**		**97.7244**	**97.7244**	**5.9600e-003**		**97.8495**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	85.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4485	281.4485	0.0267		282.0102
Total	**85.2871**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4485**	**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		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0491	0.0554	0.6879	1.2900e-003	0.1068	1.0900e-003	0.1079	0.0283	1.0000e-003	0.0293		97.7244	97.7244	5.9600e-003		97.8495
Total	**0.0491**	**0.0554**	**0.6879**	**1.2900e-003**	**0.1068**	**1.0900e-003**	**0.1079**	**0.0283**	**1.0000e-003**	**0.0293**		**97.7244**	**97.7244**	**5.9600e-003**		**97.8495**

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	9.2367	15.7707	81.1581	0.1239	7.8112	0.1896	8.0007	2.0889	0.1746	2.2636		10,230.8198	10,230.8198	0.5642		10,242.6670
Unmitigated	9.2367	15.7707	81.1581	0.1239	7.8112	0.1896	8.0007	2.0889	0.1746	2.2636		10,230.8198	10,230.8198	0.5642		10,242.6670

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	58.24	12.54	5.18	105,469	105,469
Golf Course	142.96	162.52	158.12	267,333	267,333
High Turnover (Sit Down Restaurant)	556.92	693.66	577.46	672,242	672,242
Hotel	964.06	966.42	702.10	1,761,187	1,761,187
Parking Lot	0.00	0.00	0.00		
Racquet Club	221.95	140.66	180.16	347,620	347,620
Recreational Swimming Pool	113.28	71.79	91.95	188,510	188,510
Unrefrigerated Warehouse-No Rail	8.21	8.21	8.21	23,970	23,970
Total	2,065.62	2,055.80	1,723.19	3,366,330	3,366,330

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
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
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0746	0.6782	0.5697	4.0700e-003		0.0516	0.0516		0.0516	0.0516		813.8807	813.8807	0.0156	0.0149	818.8338
NaturalGas Unmitigated	0.0746	0.6782	0.5697	4.0700e-003		0.0516	0.0516		0.0516	0.0516		813.8807	813.8807	0.0156	0.0149	818.8338

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					
Golf Course	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
High Turnover (Sit Down Restaurant)	1410.19	0.0152	0.1383	0.1161	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.9045	165.9045	3.1800e-003	3.0400e-003	166.9142
Hotel	5142.05	0.0555	0.5041	0.4235	3.0200e-003		0.0383	0.0383		0.0383	0.0383		604.9475	604.9475	0.0116	0.0111	608.6291
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
Racquet Club	67.9338	7.3000e-004	6.6600e-003	5.5900e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9922	7.9922	1.5000e-004	1.5000e-004	8.0409
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	297.81	3.2100e-003	0.0292	0.0245	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003		35.0365	35.0365	6.7000e-004	6.4000e-004	35.2497
Total		**0.0746**	**0.6782**	**0.5697**	**4.0700e-003**		**0.0516**	**0.0516**		**0.0516**	**0.0516**		**813.8807**	**813.8807**	**0.0156**	**0.0149**	**818.8338**

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					
High Turnover (Sit Down Restaurant)	1.41019	0.0152	0.1383	0.1161	8.3000e-004		0.0105	0.0105		0.0105	0.0105		165.9045	165.9045	3.1800e-003	3.0400e-003	166.9142
Hotel	5.14205	0.0555	0.5041	0.4235	3.0200e-003		0.0383	0.0383		0.0383	0.0383		604.9475	604.9475	0.0116	0.0111	608.6291
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
Racquet Club	0.0679338	7.3000e-004	6.6600e-003	5.5900e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9922	7.9922	1.5000e-004	1.5000e-004	8.0409
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.29781	3.2100e-003	0.0292	0.0245	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003		35.0365	35.0365	6.7000e-004	6.4000e-004	35.2497
Golf Course	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		**0.0746**	**0.6782**	**0.5697**	**4.0700e-003**		**0.0516**	**0.0516**		**0.0516**	**0.0516**		**813.8807**	**813.8807**	**0.0156**	**0.0149**	**818.8338**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4455	2.6000e-004	0.0280	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0591	0.0591	1.6000e-004		0.0625
Unmitigated	4.0317	2.6000e-004	0.0280	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0591	0.0591	1.6000e-004		0.0625

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	0.6283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6700e-003	2.6000e-004	0.0280	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0591	0.0591	1.6000e-004		0.0625
Total	**4.0317**	**2.6000e-004**	**0.0280**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0591**	**0.0591**	**1.6000e-004**		**0.0625**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6700e-003	2.6000e-004	0.0280	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0591	0.0591	1.6000e-004		0.0625
Total	**3.4455**	**2.6000e-004**	**0.0280**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0591**	**0.0591**	**1.6000e-004**		**0.0625**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Alternative 4

Lake Tahoe Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.32	1000sqft	0.01	315.00	0
Unrefrigerated Warehouse-No Rail	6.77	1000sqft	0.16	6,772.00	0
Parking Lot	70.00	Space	0.75	28,000.00	0
Fast Food Restaurant w/o Drive Thru	2.07	1000sqft	0.05	2,070.00	0
Golf Course	4.00	Hole	2.30	0.00	0
Health Club	4.42	1000sqft	0.10	4,416.00	0
High Turnover (Sit Down Restaurant)	6.53	1000sqft	0.15	6,531.00	0
Quality Restaurant	4.34	1000sqft	0.10	4,344.00	0
Racquet Club	2.88	1000sqft	0.07	2,880.00	0
Automobile Care Center	2.62	1000sqft	0.06	2,619.00	0
Strip Mall	6.01	1000sqft	0.14	6,009.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	414	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CPUC for Liberty Utility in 2013 assuming a 21.7% renewable portfolio and scaling to 2018 based on RPS goal of 33% renewables by 2020.

Land Use - Land uses based on estimates. Restaurant includes kitchen sqft.

Construction Phase - No major construction anticipated except for some building construction and architectural coating. Assume 200 days for renovation and default 18 days for architectural coating

Trips and VMT - 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc).

Architectural Coating - Arch Coating sqft calculated separately. Assumes total of 35956 sqft of non-res space and 70 parking spots to be striped. 53,934 int. 19,602 ext.

Vehicle Trips - Racquet Club represents Golf Course Clubhouse and may overestimate trips somewhat.

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Area Coating - Arch Coating sqft calculated separately. Assumes total of 35956 sqft of non-res space and 70 parking spots to be striped. 53,934 int. 19,602 ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use - Racquet Club represents Golf Course Clubhouse

Solid Waste -

Area Mitigation - no area mitigation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	18,398.00	19,602.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	55,194.00	53,934.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	18398	19602
tblAreaCoating	Area_Nonresidential_Interior	55194	53934
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstructionPhase	NumDays	230.00	100.00
tblConstructionPhase	PhaseEndDate	6/14/2017	12/13/2017
tblConstructionPhase	PhaseStartDate	5/20/2017	11/18/2017
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	320.00	315.00
tblLandUse	LandUseSquareFeet	6,770.00	6,772.00
tblLandUse	LandUseSquareFeet	4,420.00	4,416.00
tblLandUse	LandUseSquareFeet	6,530.00	6,531.00
tblLandUse	LandUseSquareFeet	4,340.00	4,344.00
tblLandUse	LandUseSquareFeet	2,620.00	2,619.00
tblLandUse	LandUseSquareFeet	6,010.00	6,009.00
tblLandUse	LotAcreage	0.63	0.75
tblLandUse	LotAcreage	27.92	2.30
tblProjectCharacteristics	CO2IntensityFactor	0	414
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripLength	7.30	35.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4345	1.5246	1.1787	2.0300e-003	0.0258	0.0934	0.1192	7.1500e-003	0.0878	0.0950	0.0000	178.6157	178.6157	0.0306	0.0000	179.2588
Total	**0.4345**	**1.5246**	**1.1787**	**2.0300e-003**	**0.0258**	**0.0934**	**0.1192**	**7.1500e-003**	**0.0878**	**0.0950**	**0.0000**	**178.6157**	**178.6157**	**0.0306**	**0.0000**	**179.2588**

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	0.4345	1.5246	1.1787	2.0300e-003	0.0258	0.0934	0.1192	7.1500e-003	0.0878	0.0950	0.0000	178.6155	178.6155	0.0306	0.0000	179.2587
Total	**0.4345**	**1.5246**	**1.1787**	**2.0300e-003**	**0.0258**	**0.0934**	**0.1192**	**7.1500e-003**	**0.0878**	**0.0950**	**0.0000**	**178.6155**	**178.6155**	**0.0306**	**0.0000**	**179.2587**

	ROG	NOx	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**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2755	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7000e-003	2.7000e-003	1.0000e-005	0.0000	2.8500e-003
Energy	8.6900e-003	0.0790	0.0664	4.7000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003	0.0000	180.8709	180.8709	1.6500e-003	1.5800e-003	181.3942
Mobile	2.8083	4.2687	26.0193	0.0308	1.8409	0.0475	1.8884	0.4941	0.0438	0.5379	0.0000	2,299.0316	2,299.0316	0.1301	0.0000	2,301.7644
Waste						0.0000	0.0000		0.0000	0.0000	34.6364	0.0000	34.6364	2.0470	0.0000	77.6223
Water						0.0000	0.0000		0.0000	0.0000	2.1172	29.2892	31.4064	0.2175	5.1300e-003	37.5648
Total	**3.0925**	**4.3477**	**26.0871**	**0.0313**	**1.8409**	**0.0535**	**1.8944**	**0.4941**	**0.0498**	**0.5439**	**36.7536**	**2,509.1943**	**2,545.9479**	**2.3962**	**6.7100e-003**	**2,598.3486**

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	0.2755	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7000e-003	2.7000e-003	1.0000e-005	0.0000	2.8500e-003
Energy	8.6900e-003	0.0790	0.0664	4.7000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003	0.0000	180.8709	180.8709	1.6500e-003	1.5800e-003	181.3942
Mobile	2.8083	4.2687	26.0193	0.0308	1.8409	0.0475	1.8884	0.4941	0.0438	0.5379	0.0000	2,299.0316	2,299.0316	0.1301	0.0000	2,301.7644
Waste						0.0000	0.0000		0.0000	0.0000	34.6364	0.0000	34.6364	2.0470	0.0000	77.6223
Water						0.0000	0.0000		0.0000	0.0000	2.1172	29.2892	31.4064	0.2175	5.1300e-003	37.5648
Total	**3.0925**	**4.3477**	**26.0871**	**0.0313**	**1.8409**	**0.0535**	**1.8944**	**0.4941**	**0.0498**	**0.5439**	**36.7536**	**2,509.1943**	**2,545.9479**	**2.3962**	**6.7100e-003**	**2,598.3486**

	ROG	NOx	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	Building Construction	Building Construction	1/1/2017	5/19/2017	5	100	
2	Architectural Coating	Architectural Coating	11/18/2017	12/13/2017	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 53,934; Non-Residential Outdoor: 19,602 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
Building Construction	9	26.00	10.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 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	0.1551	1.3203	0.9065	1.3400e-003		0.0891	0.0891		0.0837	0.0837	0.0000	119.7396	119.7396	0.0295	0.0000	120.3584
Total	**0.1551**	**1.3203**	**0.9065**	**1.3400e-003**		**0.0891**	**0.0891**		**0.0837**	**0.0837**	**0.0000**	**119.7396**	**119.7396**	**0.0295**	**0.0000**	**120.3584**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.1774	0.1625	5.2000e-004	0.0152	2.7000e-003	0.0179	4.3400e-003	2.4900e-003	6.8300e-003	0.0000	47.0261	47.0261	2.9000e-004	0.0000	47.0322
Worker	6.2000e-003	7.0100e-003	0.0898	1.3000e-004	0.0102	1.1000e-004	0.0103	2.7200e-003	1.0000e-004	2.8300e-003	0.0000	9.2325	9.2325	6.0000e-004	0.0000	9.2451
Total	**0.0206**	**0.1844**	**0.2523**	**6.5000e-004**	**0.0254**	**2.8100e-003**	**0.0282**	**7.0600e-003**	**2.5900e-003**	**9.6600e-003**	**0.0000**	**56.2586**	**56.2586**	**8.9000e-004**	**0.0000**	**56.2773**

3.2 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1551	1.3203	0.9065	1.3400e-003		0.0891	0.0891		0.0837	0.0837	0.0000	119.7394	119.7394	0.0295	0.0000	120.3583
Total	**0.1551**	**1.3203**	**0.9065**	**1.3400e-003**		**0.0891**	**0.0891**		**0.0837**	**0.0837**	**0.0000**	**119.7394**	**119.7394**	**0.0295**	**0.0000**	**120.3583**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.1774	0.1625	5.2000e-004	0.0152	2.7000e-003	0.0179	4.3400e-003	2.4900e-003	6.8300e-003	0.0000	47.0261	47.0261	2.9000e-004	0.0000	47.0322
Worker	6.2000e-003	7.0100e-003	0.0898	1.3000e-004	0.0102	1.1000e-004	0.0103	2.7200e-003	1.0000e-004	2.8300e-003	0.0000	9.2325	9.2325	6.0000e-004	0.0000	9.2451
Total	**0.0206**	**0.1844**	**0.2523**	**6.5000e-004**	**0.0254**	**2.8100e-003**	**0.0282**	**7.0600e-003**	**2.5900e-003**	**9.6600e-003**	**0.0000**	**56.2586**	**56.2586**	**8.9000e-004**	**0.0000**	**56.2773**

3.3 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	0.2556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
Total	**0.2586**	**0.0197**	**0.0168**	**3.0000e-005**		**1.5600e-003**	**1.5600e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**2.2979**	**2.2979**	**2.4000e-004**	**0.0000**	**2.3030**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	2.4000e-004	3.1100e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3196	0.3196	2.0000e-005	0.0000	0.3200
Total	**2.1000e-004**	**2.4000e-004**	**3.1100e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3196**	**0.3196**	**2.0000e-005**	**0.0000**	**0.3200**

3.3 Architectural Coating - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
Total	**0.2586**	**0.0197**	**0.0168**	**3.0000e-005**		**1.5600e-003**	**1.5600e-003**		**1.5600e-003**	**1.5600e-003**	**0.0000**	**2.2979**	**2.2979**	**2.4000e-004**	**0.0000**	**2.3030**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	2.4000e-004	3.1100e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3196	0.3196	2.0000e-005	0.0000	0.3200
Total	**2.1000e-004**	**2.4000e-004**	**3.1100e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3196**	**0.3196**	**2.0000e-005**	**0.0000**	**0.3200**

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	2.8083	4.2687	26.0193	0.0308	1.8409	0.0475	1.8884	0.4941	0.0438	0.5379	0.0000	2,299.0316	2,299.0316	0.1301	0.0000	2,301.7644
Unmitigated	2.8083	4.2687	26.0193	0.0308	1.8409	0.0475	1.8884	0.4941	0.0438	0.5379	0.0000	2,299.0316	2,299.0316	0.1301	0.0000	2,301.7644

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	162.44	162.44	162.44	161,820	161,820
Fast Food Restaurant w/o Drive Thru	1,482.12	1,440.72	1035.00	2,277,481	2,277,481
General Office Building	3.52	0.76	0.31	6,380	6,380
Golf Course	142.96	162.52	158.12	267,333	267,333
Health Club	145.55	92.25	118.15	231,543	231,543
High Turnover (Sit Down Restaurant)	830.29	1,034.16	860.92	1,002,223	1,002,223
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	390.38	409.52	313.17	453,219	453,219
Racquet Club	94.84	60.11	76.98	148,538	148,538
Strip Mall	266.36	252.66	122.78	375,605	375,605
Unrefrigerated Warehouse-No Rail	17.53	17.53	17.53	51,192	51,192
Total	3,536.00	3,632.66	2,865.41	4,975,335	4,975,335

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.8723	94.8723	0.0000	0.0000	94.8723
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.8723	94.8723	0.0000	0.0000	94.8723
NaturalGas Mitigated	8.6900e-003	0.0790	0.0664	4.7000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003	0.0000	85.9985	85.9985	1.6500e-003	1.5800e-003	86.5219
NaturalGas Unmitigated	8.6900e-003	0.0790	0.0664	4.7000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003	0.0000	85.9985	85.9985	1.6500e-003	1.5800e-003	86.5219

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					
Fast Food Restaurant w/o Drive Thru	243536	1.3100e-003	0.0119	0.0100	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	12.9960	12.9960	2.5000e-004	2.4000e-004	13.0751
General Office Building	6476.4	3.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3456	0.3456	1.0000e-005	1.0000e-005	0.3477
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	16250.9	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8672	0.8672	2.0000e-005	2.0000e-005	0.8725
High Turnover (Sit Down Restaurant)	768372	4.1400e-003	0.0377	0.0316	2.3000e-004		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	41.0033	41.0033	7.9000e-004	7.5000e-004	41.2528
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	511072	2.7600e-003	0.0251	0.0210	1.5000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	27.2727	27.2727	5.2000e-004	5.0000e-004	27.4387
Racquet Club	10598.4	6.0000e-005	5.2000e-004	4.4000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5656	0.5656	1.0000e-005	1.0000e-005	0.5690
Strip Mall	45608.3	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4338	2.4338	5.0000e-005	4.0000e-005	2.4487
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Automobile Care Center	9637.92	5.0000e-005	4.7000e-004	4.0000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5143	0.5143	1.0000e-005	1.0000e-005	0.5175
Total		**8.6900e-003**	**0.0790**	**0.0664**	**4.6000e-004**		**6.0000e-003**	**6.0000e-003**		**6.0000e-003**	**6.0000e-003**	**0.0000**	**85.9985**	**85.9985**	**1.6600e-003**	**1.5800e-003**	**86.5219**

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					
Fast Food Restaurant w/o Drive Thru	243536	1.3100e-003	0.0119	0.0100	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	12.9960	12.9960	2.5000e-004	2.4000e-004	13.0751
General Office Building	6476.4	3.0000e-005	3.2000e-004	2.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3456	0.3456	1.0000e-005	1.0000e-005	0.3477
Golf Course	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	16250.9	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8672	0.8672	2.0000e-005	2.0000e-005	0.8725
High Turnover (Sit Down Restaurant)	768372	4.1400e-003	0.0377	0.0316	2.3000e-004		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	41.0033	41.0033	7.9000e-004	7.5000e-004	41.2528
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	511072	2.7600e-003	0.0251	0.0210	1.5000e-004		1.9000e-003	1.9000e-003		1.9000e-003	1.9000e-003	0.0000	27.2727	27.2727	5.2000e-004	5.0000e-004	27.4387
Racquet Club	10598.4	6.0000e-005	5.2000e-004	4.4000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5656	0.5656	1.0000e-005	1.0000e-005	0.5690
Strip Mall	45608.3	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4338	2.4338	5.0000e-005	4.0000e-005	2.4487
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Automobile Care Center	9637.92	5.0000e-005	4.7000e-004	4.0000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5143	0.5143	1.0000e-005	1.0000e-005	0.5175
Total		**8.6900e-003**	**0.0790**	**0.0664**	**4.6000e-004**		**6.0000e-003**	**6.0000e-003**		**6.0000e-003**	**6.0000e-003**	**0.0000**	**85.9985**	**85.9985**	**1.6600e-003**	**1.5800e-003**	**86.5219**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	12387.9	2.3263	0.0000	0.0000	2.3263
Fast Food Restaurant w/o Drive Thru	53985.6	10.1378	0.0000	0.0000	10.1378
General Office Building	3890.25	0.7305	0.0000	0.0000	0.7305
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Health Club	20887.7	3.9224	0.0000	0.0000	3.9224
High Turnover (Sit Down Restaurant)	170328	31.9855	0.0000	0.0000	31.9855
Parking Lot	24640	4.6271	0.0000	0.0000	4.6271
Quality Restaurant	113292	21.2747	0.0000	0.0000	21.2747
Racquet Club	13622.4	2.5581	0.0000	0.0000	2.5581
Strip Mall	92178.1	17.3099	0.0000	0.0000	17.3099
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**94.8723**	**0.0000**	**0.0000**	**94.8723**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	12387.9	2.3263	0.0000	0.0000	2.3263
Fast Food Restaurant w/o Drive Thru	53985.6	10.1378	0.0000	0.0000	10.1378
General Office Building	3890.25	0.7305	0.0000	0.0000	0.7305
Golf Course	0	0.0000	0.0000	0.0000	0.0000
Health Club	20887.7	3.9224	0.0000	0.0000	3.9224
High Turnover (Sit Down Restaurant)	170328	31.9855	0.0000	0.0000	31.9855
Parking Lot	24640	4.6271	0.0000	0.0000	4.6271
Quality Restaurant	113292	21.2747	0.0000	0.0000	21.2747
Racquet Club	13622.4	2.5581	0.0000	0.0000	2.5581
Strip Mall	92178.1	17.3099	0.0000	0.0000	17.3099
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		**94.8723**	**0.0000**	**0.0000**	**94.8723**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2755	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7000e-003	2.7000e-003	1.0000e-005	0.0000	2.8500e-003
Unmitigated	0.2755	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7000e-003	2.7000e-003	1.0000e-005	0.0000	2.8500e-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	0.0256					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2498					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7000e-003	2.7000e-003	1.0000e-005	0.0000	2.8500e-003
Total	**0.2755**	**1.0000e-005**	**1.4100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.7000e-003**	**2.7000e-003**	**1.0000e-005**	**0.0000**	**2.8500e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0256					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2498					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.7000e-003	2.7000e-003	1.0000e-005	0.0000	2.8500e-003
Total	**0.2755**	**1.0000e-005**	**1.4100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.7000e-003**	**2.7000e-003**	**1.0000e-005**	**0.0000**	**2.8500e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	31.4064	0.2175	5.1300e-003	37.5648
Unmitigated	31.4064	0.2175	5.1300e-003	37.5648

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.246493 / 0.151076	0.4280	8.0300e-003	1.9000e-004	0.6554
Fast Food Restaurant w/o Drive Thru	0.628315 / 0.0401052	0.8641	0.0205	4.8000e-004	1.4439
General Office Building	0.0568748 / 0.0348588	0.0988	1.8500e-003	4.0000e-005	0.1512
Golf Course	0 / 33.2714	21.8678	0.0000	0.0000	21.8678
Health Club	0.261413 / 0.160221	0.4539	8.5200e-003	2.0000e-004	0.6951
High Turnover (Sit Down Restaurant)	1.98208 / 0.126515	2.7260	0.0646	1.5300e-003	4.5551
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.31734 / 0.0840853	1.8118	0.0429	1.0100e-003	3.0274
Racquet Club	0.170332 / 0.104397	0.2957	5.5500e-003	1.3000e-004	0.4529
Strip Mall	0.445176 / 0.27285	0.7729	0.0145	3.4000e-004	1.1837
Unrefrigerated Warehouse-No Rail	1.56556 / 0	2.0875	0.0510	1.2000e-003	3.5322
Total		**31.4064**	**0.2175**	**5.1200e-003**	**37.5648**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.246493 / 0.151076	0.4280	8.0300e-003	1.9000e-004	0.6554
Fast Food Restaurant w/o Drive Thru	0.628315 / 0.0401052	0.8641	0.0205	4.8000e-004	1.4439
General Office Building	0.0568748 / 0.0348588	0.0988	1.8500e-003	4.0000e-005	0.1512
Golf Course	0 / 33.2714	21.8678	0.0000	0.0000	21.8678
Health Club	0.261413 / 0.160221	0.4539	8.5200e-003	2.0000e-004	0.6951
High Turnover (Sit Down Restaurant)	1.98208 / 0.126515	2.7260	0.0646	1.5300e-003	4.5551
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.31734 / 0.0840853	1.8118	0.0429	1.0100e-003	3.0274
Racquet Club	0.170332 / 0.104397	0.2957	5.5500e-003	1.3000e-004	0.4529
Strip Mall	0.445176 / 0.27285	0.7729	0.0145	3.4000e-004	1.1837
Unrefrigerated Warehouse-No Rail	1.56556 / 0	2.0875	0.0510	1.2000e-003	3.5322
Total		**31.4064**	**0.2175**	**5.1200e-003**	**37.5648**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	34.6364	2.0470	0.0000	77.6223
Mitigated	34.6364	2.0470	0.0000	77.6223

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	10.01	2.0319	0.1201	0.0000	4.5537
Fast Food Restaurant w/o Drive Thru	23.84	4.8393	0.2860	0.0000	10.8452
General Office Building	0.3	0.0609	3.6000e-003	0.0000	0.1365
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
Health Club	25.19	5.1133	0.3022	0.0000	11.4593
High Turnover (Sit Down Restaurant)	77.71	15.7744	0.9322	0.0000	35.3515
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.96	0.8038	0.0475	0.0000	1.8015
Racquet Club	16.42	3.3331	0.1970	0.0000	7.4697
Strip Mall	6.31	1.2809	0.0757	0.0000	2.8705
Unrefrigerated Warehouse-No Rail	6.36	1.2910	0.0763	0.0000	2.8933
Total		**34.6363**	**2.0470**	**0.0000**	**77.6223**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	10.01	2.0319	0.1201	0.0000	4.5537
Fast Food Restaurant w/o Drive Thru	23.84	4.8393	0.2860	0.0000	10.8452
General Office Building	0.3	0.0609	3.6000e-003	0.0000	0.1365
Golf Course	0.53	0.1076	6.3600e-003	0.0000	0.2411
Health Club	25.19	5.1133	0.3022	0.0000	11.4593
High Turnover (Sit Down Restaurant)	77.71	15.7744	0.9322	0.0000	35.3515
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.96	0.8038	0.0475	0.0000	1.8015
Racquet Club	16.42	3.3331	0.1970	0.0000	7.4697
Strip Mall	6.31	1.2809	0.0757	0.0000	2.8705
Unrefrigerated Warehouse-No Rail	6.36	1.2910	0.0763	0.0000	2.8933
Total		**34.6363**	**2.0470**	**0.0000**	**77.6223**

9.0 Operational Offroad

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

10.0 Vegetation

Tahoe City Lodge - Alternative 4

Lake Tahoe Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.32	1000sqft	0.01	315.00	0
Unrefrigerated Warehouse-No Rail	6.77	1000sqft	0.16	6,772.00	0
Parking Lot	70.00	Space	0.75	28,000.00	0
Fast Food Restaurant w/o Drive Thru	2.07	1000sqft	0.05	2,070.00	0
Golf Course	4.00	Hole	2.30	0.00	0
Health Club	4.42	1000sqft	0.10	4,416.00	0
High Turnover (Sit Down Restaurant)	6.53	1000sqft	0.15	6,531.00	0
Quality Restaurant	4.34	1000sqft	0.10	4,344.00	0
Racquet Club	2.88	1000sqft	0.07	2,880.00	0
Automobile Care Center	2.62	1000sqft	0.06	2,619.00	0
Strip Mall	6.01	1000sqft	0.14	6,009.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	72
Climate Zone	14			**Operational Year**	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	414	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from ARB and total Utility Consumption from CPUC for Liberty Utility in 2013 assuming a 21.7% renewable portfolio and scaling to 2018 based on RPS goal of 33% renewables by 2020.

Land Use - Land uses based on estimates. Restaurant includes kitchen sqft.

Construction Phase - No major construction anticipated except for some building construction and architectural coating. Assume 200 days for renovation and default 18 days for architectural coating

Trips and VMT - 35 miles is avg distance between various material sites (Truckee, S. Tahoe, Reno, etc).

Architectural Coating - Arch Coating sqft calculated separately. Assumes total of 35956 sqft of non-res space and 70 parking spots to be striped. 53,934 int. 19,602 ext.

Vehicle Trips - Racquet Club represents Golf Course Clubhouse and may overestimate trips somewhat.

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Area Coating - Arch Coating sqft calculated separately. Assumes total of 35956 sqft of non-res space and 70 parking spots to be striped. 53,934 int. 19,602 ext. VOC limit based on high limit for typical arch coatings under PCAPCD Rule 218, last approved 2011.

Landscape Equipment - Default snow days for South Lake Tahoe.

Energy Use - Racquet Club represents Golf Course Clubhouse

Solid Waste -

Area Mitigation - no area mitigation

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	18,398.00	19,602.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	55,194.00	53,934.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	150
tblAreaCoating	Area_Nonresidential_Exterior	18398	19602
tblAreaCoating	Area_Nonresidential_Interior	55194	53934
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblConstructionPhase	NumDays	230.00	100.00
tblConstructionPhase	PhaseEndDate	6/14/2017	12/13/2017
tblConstructionPhase	PhaseStartDate	5/20/2017	11/18/2017
tblLandscapeEquipment	NumberSnowDays	0	67
tblLandUse	LandUseSquareFeet	320.00	315.00
tblLandUse	LandUseSquareFeet	6,770.00	6,772.00
tblLandUse	LandUseSquareFeet	4,420.00	4,416.00
tblLandUse	LandUseSquareFeet	6,530.00	6,531.00
tblLandUse	LandUseSquareFeet	4,340.00	4,344.00
tblLandUse	LandUseSquareFeet	2,620.00	2,619.00
tblLandUse	LandUseSquareFeet	6,010.00	6,009.00
tblLandUse	LotAcreage	0.63	0.75
tblLandUse	LotAcreage	27.92	2.30
tblProjectCharacteristics	CO2IntensityFactor	0	414
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripLength	7.30	35.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	28.7574	30.0022	22.2639	0.0399	0.5288	1.8375	2.3663	0.1462	1.7248	1.8710	0.0000	3,880.3702	3,880.3702	0.6694	0.0000	3,894.4267
Total	**28.7574**	**30.0022**	**22.2639**	**0.0399**	**0.5288**	**1.8375**	**2.3663**	**0.1462**	**1.7248**	**1.8710**	**0.0000**	**3,880.3702**	**3,880.3702**	**0.6694**	**0.0000**	**3,894.4267**

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	28.7574	30.0022	22.2639	0.0399	0.5288	1.8375	2.3663	0.1462	1.7248	1.8710	0.0000	3,880.3702	3,880.3702	0.6694	0.0000	3,894.4267
Total	**28.7574**	**30.0022**	**22.2639**	**0.0399**	**0.5288**	**1.8375**	**2.3663**	**0.1462**	**1.7248**	**1.8710**	**0.0000**	**3,880.3702**	**3,880.3702**	**0.6694**	**0.0000**	**3,894.4267**

	ROG	NOx	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**

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	1.5098	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0255
Energy	0.0476	0.4329	0.3636	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.4363	519.4363	9.9600e-003	9.5200e-003	522.5975
Mobile	15.1852	24.0790	126.5156	0.1837	11.4911	0.2839	11.7750	3.0730	0.2616	3.3346		15,161.4843	15,161.4843	0.8595		15,179.5339
Total	**16.7426**	**24.5120**	**126.8906**	**0.1863**	**11.4911**	**0.3168**	**11.8079**	**3.0730**	**0.2945**	**3.3675**		**15,680.9447**	**15,680.9447**	**0.8695**	**9.5200e-003**	**15,702.1569**

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	1.5098	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0255
Energy	0.0476	0.4329	0.3636	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.4363	519.4363	9.9600e-003	9.5200e-003	522.5975
Mobile	15.1852	24.0790	126.5156	0.1837	11.4911	0.2839	11.7750	3.0730	0.2616	3.3346		15,161.4843	15,161.4843	0.8595		15,179.5339
Total	**16.7426**	**24.5120**	**126.8906**	**0.1863**	**11.4911**	**0.3168**	**11.8079**	**3.0730**	**0.2945**	**3.3675**		**15,680.9447**	**15,680.9447**	**0.8695**	**9.5200e-003**	**15,702.1569**

	ROG	NOx	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	Building Construction	Building Construction	1/1/2017	5/19/2017	5	100	
2	Architectural Coating	Architectural Coating	11/18/2017	12/13/2017	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 53,934; Non-Residential Outdoor: 19,602 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
Building Construction	9	26.00	10.00	0.00	10.80	35.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2017

Unmitigated Construction On-Site

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

3.2 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2651	3.4734	2.5485	0.0105	0.3152	0.0540	0.3693	0.0896	0.0497	0.1393		1,037.5024	1,037.5024	6.4700e-003		1,037.6383
Worker	0.1132	0.1231	1.5862	2.5800e-003	0.2136	2.2800e-003	0.2159	0.0567	2.1000e-003	0.0588		203.0625	203.0625	0.0132		203.3394
Total	**0.3783**	**3.5965**	**4.1347**	**0.0131**	**0.5288**	**0.0563**	**0.5851**	**0.1462**	**0.0518**	**0.1980**		**1,240.5649**	**1,240.5649**	**0.0197**		**1,240.9777**

Mitigated Construction On-Site

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

3.2 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2651	3.4734	2.5485	0.0105	0.3152	0.0540	0.3693	0.0896	0.0497	0.1393		1,037.5024	1,037.5024	6.4700e-003		1,037.6383
Worker	0.1132	0.1231	1.5862	2.5800e-003	0.2136	2.2800e-003	0.2159	0.0567	2.1000e-003	0.0588		203.0625	203.0625	0.0132		203.3394
Total	**0.3783**	**3.5965**	**4.1347**	**0.0131**	**0.5288**	**0.0563**	**0.5851**	**0.1462**	**0.0518**	**0.1980**		**1,240.5649**	**1,240.5649**	**0.0197**		**1,240.9777**

3.3 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	28.4033					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	281.4481	0.0297		282.0721
Total	**28.7356**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**		**281.4481**	**281.4481**	**0.0297**		**282.0721**

3.3 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0218	0.0237	0.3050	5.0000e-004	0.0411	4.4000e-004	0.0415	0.0109	4.0000e-004	0.0113		39.0505	39.0505	2.5400e-003		39.1037
Total	**0.0218**	**0.0237**	**0.3050**	**5.0000e-004**	**0.0411**	**4.4000e-004**	**0.0415**	**0.0109**	**4.0000e-004**	**0.0113**		**39.0505**	**39.0505**	**2.5400e-003**		**39.1037**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	28.4033					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	281.4481	0.0297		282.0721
Total	**28.7356**	**2.1850**	**1.8681**	**2.9700e-003**		**0.1733**	**0.1733**		**0.1733**	**0.1733**	**0.0000**	**281.4481**	**281.4481**	**0.0297**		**282.0721**

3.3 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0218	0.0237	0.3050	5.0000e-004	0.0411	4.4000e-004	0.0415	0.0109	4.0000e-004	0.0113		39.0505	39.0505	2.5400e-003		39.1037
Total	**0.0218**	**0.0237**	**0.3050**	**5.0000e-004**	**0.0411**	**4.4000e-004**	**0.0415**	**0.0109**	**4.0000e-004**	**0.0113**		**39.0505**	**39.0505**	**2.5400e-003**		**39.1037**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1852	24.0790	126.5156	0.1837	11.4911	0.2839	11.7750	3.0730	0.2616	3.3346		15,161.4843	15,161.4843	0.8595		15,179.5339
Unmitigated	15.1852	24.0790	126.5156	0.1837	11.4911	0.2839	11.7750	3.0730	0.2616	3.3346		15,161.4843	15,161.4843	0.8595		15,179.5339

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	162.44	162.44	162.44	161,820	161,820
Fast Food Restaurant w/o Drive Thru	1,482.12	1,440.72	1035.00	2,277,481	2,277,481
General Office Building	3.52	0.76	0.31	6,380	6,380
Golf Course	142.96	162.52	158.12	267,333	267,333
Health Club	145.55	92.25	118.15	231,543	231,543
High Turnover (Sit Down Restaurant)	830.29	1,034.16	860.92	1,002,223	1,002,223
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	390.38	409.52	313.17	453,219	453,219
Racquet Club	94.84	60.11	76.98	148,538	148,538
Strip Mall	266.36	252.66	122.78	375,605	375,605
Unrefrigerated Warehouse-No Rail	17.53	17.53	17.53	51,192	51,192
Total	3,536.00	3,632.66	2,865.41	4,975,335	4,975,335

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Fast Food Restaurant w/o Drive	9.50	7.30	7.30	1.50	79.50	19.00	51	37	12
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Golf Course	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.320091	0.094800	0.237941	0.204697	0.074832	0.008564	0.018512	0.020351	0.005081	0.001327	0.008846	0.000672	0.004287

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0476	0.4329	0.3636	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.4363	519.4363	9.9600e-003	9.5200e-003	522.5975
NaturalGas Unmitigated	0.0476	0.4329	0.3636	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.4363	519.4363	9.9600e-003	9.5200e-003	522.5975

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					
Fast Food Restaurant w/o Drive Thru	667.221	7.2000e-003	0.0654	0.0550	3.9000e-004		4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003		78.4965	78.4965	1.5000e-003	1.4400e-003	78.9743
General Office Building	17.7436	1.9000e-004	1.7400e-003	1.4600e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		2.0875	2.0875	4.0000e-005	4.0000e-005	2.1002
Golf Course	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
Health Club	44.523	4.8000e-004	4.3600e-003	3.6700e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		5.2380	5.2380	1.0000e-004	1.0000e-004	5.2699
High Turnover (Sit Down Restaurant)	2105.13	0.0227	0.2064	0.1734	1.2400e-003		0.0157	0.0157		0.0157	0.0157		247.6623	247.6623	4.7500e-003	4.5400e-003	249.1695
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
Quality Restaurant	1400.2	0.0151	0.1373	0.1153	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.7290	164.7290	3.1600e-003	3.0200e-003	165.7315
Racquet Club	29.0367	3.1000e-004	2.8500e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.4161	3.4161	7.0000e-005	6.0000e-005	3.4369
Strip Mall	124.954	1.3500e-003	0.0123	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		14.7005	14.7005	2.8000e-004	2.7000e-004	14.7900
Unrefrigerated Warehouse-No Rail	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
Automobile Care Center	26.4053	2.8000e-004	2.5900e-003	2.1700e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.1065	3.1065	6.0000e-005	6.0000e-005	3.1254
Total		**0.0476**	**0.4329**	**0.3636**	**2.6000e-003**		**0.0329**	**0.0329**		**0.0329**	**0.0329**		**519.4363**	**519.4363**	**9.9600e-003**	**9.5300e-003**	**522.5975**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0177436	1.9000e-004	1.7400e-003	1.4600e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		2.0875	2.0875	4.0000e-005	4.0000e-005	2.1002
Golf Course	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
Health Club	0.044523	4.8000e-004	4.3600e-003	3.6700e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		5.2380	5.2380	1.0000e-004	1.0000e-004	5.2699
High Turnover (Sit Down Restaurant)	2.10513	0.0227	0.2064	0.1734	1.2400e-003		0.0157	0.0157		0.0157	0.0157		247.6623	247.6623	4.7500e-003	4.5400e-003	249.1695
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
Quality Restaurant	1.4002	0.0151	0.1373	0.1153	8.2000e-004		0.0104	0.0104		0.0104	0.0104		164.7290	164.7290	3.1600e-003	3.0200e-003	165.7315
Racquet Club	0.0290367	3.1000e-004	2.8500e-003	2.3900e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.4161	3.4161	7.0000e-005	6.0000e-005	3.4369
Strip Mall	0.124954	1.3500e-003	0.0123	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004		14.7005	14.7005	2.8000e-004	2.7000e-004	14.7900
Unrefrigerated Warehouse-No Rail	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
Automobile Care Center	0.0264053	2.8000e-004	2.5900e-003	2.1700e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		3.1065	3.1065	6.0000e-005	6.0000e-005	3.1254
Fast Food Restaurant w/o Drive Thru	0.667221	7.2000e-003	0.0654	0.0550	3.9000e-004		4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003		78.4965	78.4965	1.5000e-003	1.4400e-003	78.9743
Total		**0.0476**	**0.4329**	**0.3636**	**2.6000e-003**		**0.0329**	**0.0329**		**0.0329**	**0.0329**		**519.4363**	**519.4363**	**9.9600e-003**	**9.5300e-003**	**522.5975**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5098	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0255
Unmitigated	1.5098	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0255

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	0.1401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0255
Total	**1.5098**	**1.1000e-004**	**0.0114**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0241**	**0.0241**	**7.0000e-005**		**0.0255**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0900e-003	1.1000e-004	0.0114	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0241	0.0241	7.0000e-005		0.0255
Total	**1.5098**	**1.1000e-004**	**0.0114**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0241**	**0.0241**	**7.0000e-005**		**0.0255**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Appendix H-4

PCTBAP VMT Calculations

Placer Area Plan VMT and CO Analysis

Historical and Future Daily VMT in the Tahoe Region and the PCTBA under Existing Conditions and RPU					
	Tahoe Region (From the TRPA RTP EIR/EIS)	Placer County	Placer County	Tahoe Region Source	Placer County Source
Year	Daily VMT	Daily VMT	Percent of region		
2005	1,539,088	332,343	21.59%	TRPA Sustainability Action Plan	Scaled by Placer County's percentage in 2010
2010	1,984,600	428,545	21.59%	TRPA RPU EIR/EIS. Appendix F.	TRPA RPU EIR/EIS. Appendix F.
2015	1,942,521	437,576	22.53%	LSC Transportation Consultants Memo (2/16/2016)	Scaled by Placer County's percentage in 2018
2018	1,988,633	447,963	22.53%	TRPA RPU EIR/EIS. Appendix F.	TRPA RPU EIR/EIS. Appendix F.
2020	1,989,641	449,823	22.61%	Interpolated between 2015 and 2035	Interpolated between 2015 and 2035
2026	2,046,184	464,386	22.70%	Interpolated between 2015 and 2035	Interpolated between 2015 and 2035
2035	2,131,000	481,739	22.61%	TRPA RPU EIR/EIS. Appendix F.	TRPA RPU EIR/EIS. Appendix F.

Forcasted Daily VMT in the Tahoe Region and the PCTBA under the RPU and Placer Area Plan					
		Tahoe Region (From the LSC Transportation Consulting Memorandum)	Placer County (Calculated from "Percent of Region" above)*	Difference from RPU analysis	
	Year	Daily VMT	Daily VMT	Daily VMT**	Annual VMT
LSC Caculated Existing	2015	1,942,521	437,576		
Alt One	2018	1,947,210	438,632	-9,331	-2,454,044
Alt Two	2018	1,948,147	438,843	-9,120	-2,398,538
Alt Three	2018	1,947,951	438,799	-9,164	-2,410,153
Alt Four	2018	1,948,661	438,959	-9,004	-2,368,093
Alt One	2035	1,973,780	446,197	-35,542	-9,347,423
Alt Two	2035	1,980,026	447,609	-34,130	-8,976,071
Alt Three	2035	1,978,719	447,314	-34,425	-9,053,778
Alt Four	2035	1,983,452	448,384	-33,355	-8,772,380
** VMT at the county-level within the Tahoe Region was not available from LSC Transportation Consultants.*					
*** Applied to CO emission factors per mile to calculate CO emissions per day.*					
**** Applied to GHG emission factors per mile to calculate annual GHG emissions per day.*					

Carbon Monoxide (CO) Emission Factors from EMFAC 2014	
Description	Carbon Monoxide
EMFAC2014 emissions per mile in 2018 in the Lake Tahoe Basin (g/mi)	2.100212
EMFAC2014 emissions per mile in 2018 in the Lake Tahoe Basin (tons/mi)	2.32E-06
EMFAC2014 emissions per mile in 2035 in the Lake Tahoe Basin (g/mi)	0.561269
EMFAC2014 emissions per mile in 2035 in the Lake Tahoe Basin (tons/mi)	6.19E-07

Forcasted CO Emissions per day calculated from VMT in the Tahoe Region and the PCTBA under the RPU and Placer Area Plan		
	Year	Placer County - CO per day (Tons per day)
Alt One	2018	1.02
Alt Two	2018	1.02
Alt Three	2018	1.02
Alt Four	2018	1.02
Alt One	2035	0.28
Alt Two	2035	0.28
Alt Three	2035	0.28
Alt Four	2035	0.28

PCTBAP Analysis: Adjustment of Consumer Product Default Emissions Factor in CalEEMod

Year	State Population	ROG emissions (tons/day)	tons/capita	% reduction from 2008
2008	36,704,375	219.89	5.9909E-06	
2012	38,037,860	204.66	5.38043E-06	10%
2025	42,373,655	218.69	5.16099E-06	14%
2030	44,099,585	225.98	5.12431E-06	14%
Source	Department of Finance	ARB Criteria Pollutant Emissions Inventory	Calculated	

Calculation of Forecasted Consumber Product Emission Factor		
Year	emission factor (lb ROG/sqft/day)	% reduction from 2008
2008 (Default Year)	0.0000214	<--CalEEMod default
2012	0.0000192	10%
2025	0.0000184	14%
2030	0.0000183	14%