Appendix AQ

Air Quality and Greenhouse Gas Emissions Modeling Results

401 East Millbrae Avenue Project (Moxy Hotel) - 2022

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	5.79
tblVehicleTrips	SU_TR	5.95	4.43
tblVehicleTrips	WD_TR	8.17	4.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94
tblWater	SepticTankPercent	10.33	0.00

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2855	262.2855	0.0575	0.0000	263.7236
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3272	242.3272	0.0407	0.0000	243.3454
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2855**	**262.2855**	**0.0575**	**0.0000**	**263.7236**

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2852	262.2852	0.0575	0.0000	263.7234
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3269	242.3269	0.0407	0.0000	243.3451
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2852**	**262.2852**	**0.0575**	**0.0000**	**263.7234**

	ROG	**NOx**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	0.7415	0.7415
2	**9-1-2020**	**11-30-2020**	1.0232	1.0232
3	**12-1-2020**	**2-28-2021**	0.7823	0.7823
4	**3-1-2021**	**5-31-2021**	0.7499	0.7499
5	**6-1-2021**	**8-31-2021**	0.9398	0.9398
		Highest	1.0232	1.0232

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	0.3386	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1956	0.5715	2.0629	6.8300e-003	0.6377	5.8600e-003	0.6436	0.1714	5.4700e-003	0.1768	0.0000	625.5501	625.5501	0.0231	0.0000	626.1284
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.5492**	**0.7083**	**2.1798**	**7.6500e-003**	**0.6377**	**0.0163**	**0.6540**	**0.1714**	**0.0159**	**0.1873**	**24.7289**	**855.6458**	**880.3746**	**1.4418**	**6.8100e-003**	**918.4482**

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	0.3386	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1829	0.5106	1.7987	5.6400e-003	0.5201	4.9400e-003	0.5251	0.1398	4.6100e-003	0.1444	0.0000	515.7898	515.7898	0.0196	0.0000	516.2801
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.5366**	**0.6474**	**1.9156**	**6.4600e-003**	**0.5201**	**0.0154**	**0.5355**	**0.1398**	**0.0150**	**0.1548**	**24.7289**	**745.8855**	**770.6143**	**1.4383**	**6.8100e-003**	**808.5999**

	ROG	**NOx**	**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	**2.30**	**8.60**	**12.12**	**15.56**	**18.44**	**5.65**	**18.12**	**18.44**	**5.42**	**17.34**	**0.00**	**12.83**	**12.47**	**0.24**	**0.00**	**11.96**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3987	25.3987	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3987**	**25.3987**	**8.2100e-003**	**0.0000**	**25.6040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3986	25.3986	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3986**	**25.3986**	**8.2100e-003**	**0.0000**	**25.6040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3718	120.3718	0.0248	0.0000	120.9918
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3718**	**120.3718**	**0.0248**	**0.0000**	**120.9918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3717	120.3717	0.0248	0.0000	120.9916
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3717**	**120.3717**	**0.0248**	**0.0000**	**120.9916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0433	180.0433	0.0360	0.0000	180.9433
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0433**	**180.0433**	**0.0360**	**0.0000**	**180.9433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0431	180.0431	0.0360	0.0000	180.9431
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0431**	**180.0431**	**0.0360**	**0.0000**	**180.9431**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2919	73.2919	0.0220	0.0000	73.8419
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2919**	**73.2919**	**0.0220**	**0.0000**	**73.8419**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2918	73.2918	0.0220	0.0000	73.8418
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2918**	**73.2918**	**0.0220**	**0.0000**	**73.8418**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1829	0.5106	1.7987	5.6400e-003	0.5201	4.9400e-003	0.5251	0.1398	4.6100e-003	0.1444	0.0000	515.7898	515.7898	0.0196	0.0000	516.2801
Unmitigated	0.1956	0.5715	2.0629	6.8300e-003	0.6377	5.8600e-003	0.6436	0.1714	5.4700e-003	0.1768	0.0000	625.5501	625.5501	0.0231	0.0000	626.1284

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	840.18	1,210.11	925.87	1,719,948	1,402,832
Total	840.18	1,210.11	925.87	1,719,948	1,402,832

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
NaturalGas Mitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
NaturalGas Unmitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199

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					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

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	0.3386	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Unmitigated	0.3386	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.8888	0.0394	3.3000e-003	6.8561
Unmitigated	4.8888	0.0394	3.3000e-003	6.8561

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2283	1.3728	0.0000	57.5470
Unmitigated	23.2283	1.3728	0.0000	57.5470

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

401 East Millbrae Avenue Project (Moxy Hotel) - 2022

San Mateo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	5.79
tblVehicleTrips	SU_TR	5.95	4.43
tblVehicleTrips	WD_TR	8.17	4.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.4583	27.9823	27.6929	0.0484	5.0166	1.4914	5.7034	2.5528	1.4124	3.1847	0.0000	4,559.8108	4,559.8108	0.9534	0.0000	4,583.6446
2021	12.0022	25.7470	27.2903	0.0482	0.5149	1.2924	1.8073	0.1386	1.2237	1.3623	0.0000	4,540.9435	4,540.9435	0.9378	0.0000	4,564.3891
Maximum	**12.0022**	**27.9823**	**27.6929**	**0.0484**	**5.0166**	**1.4914**	**5.7034**	**2.5528**	**1.4124**	**3.1847**	**0.0000**	**4,559.8108**	**4,559.8108**	**0.9534**	**0.0000**	**4,583.6446**

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					
2020	3.4583	27.9823	27.6929	0.0484	5.0166	1.4914	5.7034	2.5528	1.4124	3.1847	0.0000	4,559.8108	4,559.8108	0.9534	0.0000	4,583.6446
2021	12.0022	25.7470	27.2903	0.0482	0.5149	1.2924	1.8073	0.1386	1.2237	1.3623	0.0000	4,540.9435	4,540.9435	0.9378	0.0000	4,564.3891
Maximum	**12.0022**	**27.9823**	**27.6929**	**0.0484**	**5.0166**	**1.4914**	**5.7034**	**2.5528**	**1.4124**	**3.1847**	**0.0000**	**4,559.8108**	**4,559.8108**	**0.9534**	**0.0000**	**4,583.6446**

	ROG	**NOx**	**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	1.8563	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Energy	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
Mobile	1.5940	4.0087	15.1766	0.0527	4.8838	0.0430	4.9268	1.3078	0.0401	1.3479		5,313.5974	5,313.5974	0.1867		5,318.2650
Total	**3.5328**	**4.7585**	**15.8277**	**0.0572**	**4.8838**	**0.1001**	**4.9839**	**1.3078**	**0.0972**	**1.4050**		**6,213.2189**	**6,213.2189**	**0.2041**	**0.0165**	**6,223.2353**

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	1.8563	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Energy	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
Mobile	1.5008	3.5916	13.0765	0.0434	3.9834	0.0363	4.0197	1.0667	0.0338	1.1005		4,379.7943	4,379.7943	0.1576		4,383.7341
Total	**3.4395**	**4.3415**	**13.7275**	**0.0479**	**3.9834**	**0.0933**	**4.0767**	**1.0667**	**0.0909**	**1.1576**		**5,279.4158**	**5,279.4158**	**0.1750**	**0.0165**	**5,288.7044**

	ROG	NOx	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	**2.64**	**8.76**	**13.27**	**16.20**	**18.44**	**6.73**	**18.20**	**18.44**	**6.47**	**17.61**	**0.00**	**15.03**	**15.03**	**14.27**	**0.00**	**15.02**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9162	0.0000	4.9162	2.5259	0.0000	2.5259			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9162**	**0.6844**	**5.6006**	**2.5259**	**0.6296**	**3.1555**		**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0176	0.6299	0.2672	1.6300e-003	0.0347	1.9900e-003	0.0367	9.5000e-003	1.9000e-003	0.0114		184.9808	184.9808	0.0229		185.5535
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0220	0.0130	0.1656	6.2000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.6000e-004	0.0178		61.3695	61.3695	1.1900e-003		61.3992
Total	**0.0396**	**0.6429**	**0.4328**	**2.2500e-003**	**0.1005**	**2.3900e-003**	**0.1028**	**0.0269**	**2.2600e-003**	**0.0292**		**246.3503**	**246.3503**	**0.0241**		**246.9527**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9162	0.0000	4.9162	2.5259	0.0000	2.5259			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9162**	**0.6844**	**5.6006**	**2.5259**	**0.6296**	**3.1555**	**0.0000**	**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0176	0.6299	0.2672	1.6300e-003	0.0347	1.9900e-003	0.0367	9.5000e-003	1.9000e-003	0.0114		184.9808	184.9808	0.0229		185.5535
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0220	0.0130	0.1656	6.2000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.6000e-004	0.0178		61.3695	61.3695	1.1900e-003		61.3992
Total	**0.0396**	**0.6429**	**0.4328**	**2.2500e-003**	**0.1005**	**2.3900e-003**	**0.1028**	**0.0269**	**2.2600e-003**	**0.0292**		**246.3503**	**246.3503**	**0.0241**		**246.9527**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2870	17.0449	16.3941	0.0256		0.9793	0.9793		0.9375	0.9375		2,348.4458	2,348.4458	0.4838		2,360.5411
Total	**2.2870**	**17.0449**	**16.3941**	**0.0256**		**0.9793**	**0.9793**		**0.9375**	**0.9375**		**2,348.4458**	**2,348.4458**	**0.4838**		**2,360.5411**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0494	1.4847	0.5756	3.4800e-003	0.0877	7.4400e-003	0.0952	0.0253	7.1200e-003	0.0324		382.5423	382.5423	0.0327		383.3585
Worker	0.0879	0.0521	0.6622	2.4600e-003	0.2629	1.5800e-003	0.2645	0.0697	1.4600e-003	0.0712		245.4780	245.4780	4.7500e-003		245.5967
Total	**0.1373**	**1.5369**	**1.2378**	**5.9400e-003**	**0.3506**	**9.0200e-003**	**0.3596**	**0.0950**	**8.5800e-003**	**0.1035**		**628.0204**	**628.0204**	**0.0374**		**628.9552**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2870	17.0449	16.3941	0.0256		0.9793	0.9793		0.9375	0.9375	0.0000	2,348.4458	2,348.4458	0.4838		2,360.5411
Total	**2.2870**	**17.0449**	**16.3941**	**0.0256**		**0.9793**	**0.9793**		**0.9375**	**0.9375**	**0.0000**	**2,348.4458**	**2,348.4458**	**0.4838**		**2,360.5411**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0494	1.4847	0.5756	3.4800e-003	0.0877	7.4400e-003	0.0952	0.0253	7.1200e-003	0.0324		382.5423	382.5423	0.0327		383.3585
Worker	0.0879	0.0521	0.6622	2.4600e-003	0.2629	1.5800e-003	0.2645	0.0697	1.4600e-003	0.0712		245.4780	245.4780	4.7500e-003		245.5967
Total	**0.1373**	**1.5369**	**1.2378**	**5.9400e-003**	**0.3506**	**9.0200e-003**	**0.3596**	**0.0950**	**8.5800e-003**	**0.1035**		**628.0204**	**628.0204**	**0.0374**		**628.9552**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0404	15.6778	16.1049	0.0256		0.8376	0.8376		0.8018	0.8018		2,348.6835	2,348.6835	0.4696		2,360.4246
Total	**2.0404**	**15.6778**	**16.1049**	**0.0256**		**0.8376**	**0.8376**		**0.8018**	**0.8018**		**2,348.6835**	**2,348.6835**	**0.4696**		**2,360.4246**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0406	1.3351	0.5577	3.4300e-003	0.0878	3.0400e-003	0.0908	0.0253	2.9100e-003	0.0282		377.7811	377.7811	0.0321		378.5836
Worker	0.0820	0.0468	0.6132	2.3700e-003	0.2629	1.5300e-003	0.2644	0.0697	1.4100e-003	0.0711		236.7265	236.7265	4.2700e-003		236.8333
Total	**0.1226**	**1.3819**	**1.1709**	**5.8000e-003**	**0.3506**	**4.5700e-003**	**0.3552**	**0.0950**	**4.3200e-003**	**0.0993**		**614.5077**	**614.5077**	**0.0364**		**615.4169**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0404	15.6778	16.1049	0.0256		0.8376	0.8376		0.8018	0.8018	0.0000	2,348.6835	2,348.6835	0.4696		2,360.4246
Total	**2.0404**	**15.6778**	**16.1049**	**0.0256**		**0.8376**	**0.8376**		**0.8018**	**0.8018**	**0.0000**	**2,348.6835**	**2,348.6835**	**0.4696**		**2,360.4246**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0406	1.3351	0.5577	3.4300e-003	0.0878	3.0400e-003	0.0908	0.0253	2.9100e-003	0.0282		377.7811	377.7811	0.0321		378.5836
Worker	0.0820	0.0468	0.6132	2.3700e-003	0.2629	1.5300e-003	0.2644	0.0697	1.4100e-003	0.0711		236.7265	236.7265	4.2700e-003		236.8333
Total	**0.1226**	**1.3819**	**1.1709**	**5.8000e-003**	**0.3506**	**4.5700e-003**	**0.3552**	**0.0950**	**4.3200e-003**	**0.0993**		**614.5077**	**614.5077**	**0.0364**		**615.4169**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9790	9.3679	9.6472	0.0153		0.5022	0.5022		0.4654	0.4654		1,429.9208	1,429.9208	0.4292		1,440.6504
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9790**	**9.3679**	**9.6472**	**0.0153**		**0.5022**	**0.5022**		**0.4654**	**0.4654**		**1,429.9208**	**1,429.9208**	**0.4292**		**1,440.6504**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0550	0.0326	0.4139	1.5400e-003	0.1643	9.9000e-004	0.1653	0.0436	9.1000e-004	0.0445		153.4238	153.4238	2.9700e-003		153.4979
Total	**0.0550**	**0.0326**	**0.4139**	**1.5400e-003**	**0.1643**	**9.9000e-004**	**0.1653**	**0.0436**	**9.1000e-004**	**0.0445**		**153.4238**	**153.4238**	**2.9700e-003**		**153.4979**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9790	9.3679	9.6472	0.0153		0.5022	0.5022		0.4654	0.4654	0.0000	1,429.9208	1,429.9208	0.4292		1,440.6504
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9790**	**9.3679**	**9.6472**	**0.0153**		**0.5022**	**0.5022**		**0.4654**	**0.4654**	**0.0000**	**1,429.9208**	**1,429.9208**	**0.4292**		**1,440.6504**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0550	0.0326	0.4139	1.5400e-003	0.1643	9.9000e-004	0.1653	0.0436	9.1000e-004	0.0445		153.4238	153.4238	2.9700e-003		153.4979
Total	**0.0550**	**0.0326**	**0.4139**	**1.5400e-003**	**0.1643**	**9.9000e-004**	**0.1653**	**0.0436**	**9.1000e-004**	**0.0445**		**153.4238**	**153.4238**	**2.9700e-003**		**153.4979**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9134	8.6580	9.6313	0.0153		0.4492	0.4492		0.4167	0.4167		1,429.7982	1,429.7982	0.4292		1,440.5269
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9134**	**8.6580**	**9.6313**	**0.0153**		**0.4492**	**0.4492**		**0.4167**	**0.4167**		**1,429.7982**	**1,429.7982**	**0.4292**		**1,440.5269**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0513	0.0292	0.3833	1.4800e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		147.9541	147.9541	2.6700e-003		148.0208
Total	**0.0513**	**0.0292**	**0.3833**	**1.4800e-003**	**0.1643**	**9.6000e-004**	**0.1653**	**0.0436**	**8.8000e-004**	**0.0445**		**147.9541**	**147.9541**	**2.6700e-003**		**148.0208**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9134	8.6580	9.6313	0.0153		0.4492	0.4492		0.4167	0.4167	0.0000	1,429.7982	1,429.7982	0.4292		1,440.5269
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9134**	**8.6580**	**9.6313**	**0.0153**		**0.4492**	**0.4492**		**0.4167**	**0.4167**	**0.0000**	**1,429.7982**	**1,429.7982**	**0.4292**		**1,440.5269**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0513	0.0292	0.3833	1.4800e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		147.9541	147.9541	2.6700e-003		148.0208
Total	**0.0513**	**0.0292**	**0.3833**	**1.4800e-003**	**0.1643**	**9.6000e-004**	**0.1653**	**0.0436**	**8.8000e-004**	**0.0445**		**147.9541**	**147.9541**	**2.6700e-003**		**148.0208**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**9.8239**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0154	8.7700e-003	0.1150	4.4000e-004	0.0493	2.9000e-004	0.0496	0.0131	2.6000e-004	0.0133		44.3862	44.3862	8.0000e-004		44.4062
Total	**0.0154**	**8.7700e-003**	**0.1150**	**4.4000e-004**	**0.0493**	**2.9000e-004**	**0.0496**	**0.0131**	**2.6000e-004**	**0.0133**		**44.3862**	**44.3862**	**8.0000e-004**		**44.4062**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.6050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**9.8239**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0154	8.7700e-003	0.1150	4.4000e-004	0.0493	2.9000e-004	0.0496	0.0131	2.6000e-004	0.0133		44.3862	44.3862	8.0000e-004		44.4062
Total	**0.0154**	**8.7700e-003**	**0.1150**	**4.4000e-004**	**0.0493**	**2.9000e-004**	**0.0496**	**0.0131**	**2.6000e-004**	**0.0133**		**44.3862**	**44.3862**	**8.0000e-004**		**44.4062**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5008	3.5916	13.0765	0.0434	3.9834	0.0363	4.0197	1.0667	0.0338	1.1005		4,379.7943	4,379.7943	0.1576		4,383.7341
Unmitigated	1.5940	4.0087	15.1766	0.0527	4.8838	0.0430	4.9268	1.3078	0.0401	1.3479		5,313.5974	5,313.5974	0.1867		5,318.2650

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	840.18	1,210.11	925.87	1,719,948	1,402,832
Total	840.18	1,210.11	925.87	1,719,948	1,402,832

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
NaturalGas Unmitigated	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	7646.39	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
Total		**0.0825**	**0.7497**	**0.6297**	**4.5000e-003**		**0.0570**	**0.0570**		**0.0570**	**0.0570**		**899.5758**	**899.5758**	**0.0172**	**0.0165**	**904.9215**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	7.64639	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
Total		**0.0825**	**0.7497**	**0.6297**	**4.5000e-003**		**0.0570**	**0.0570**		**0.0570**	**0.0570**		**899.5758**	**899.5758**	**0.0172**	**0.0165**	**904.9215**

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	1.8563	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Unmitigated	1.8563	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488

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	0.2184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Total	**1.8563**	**2.0000e-004**	**0.0214**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0457**	**0.0457**	**1.2000e-004**		**0.0488**

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	0.2184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Total	**1.8563**	**2.0000e-004**	**0.0214**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0457**	**0.0457**	**1.2000e-004**		**0.0488**

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 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

401 East Millbrae Avenue Project (Moxy Hotel) - 2022

San Mateo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	5.79
tblVehicleTrips	SU_TR	5.95	4.43
tblVehicleTrips	WD_TR	8.17	4.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.4768	28.0257	27.7096	0.0481	5.0166	1.4916	5.7034	2.5528	1.4126	3.1848	0.0000	4,528.5640	4,528.5640	0.9538	0.0000	4,552.4079
2021	12.0158	25.7834	27.3031	0.0480	0.5149	1.2925	1.8074	0.1386	1.2239	1.3624	0.0000	4,510.7131	4,510.7131	0.9382	0.0000	4,534.1674
Maximum	**12.0158**	**28.0257**	**27.7096**	**0.0481**	**5.0166**	**1.4916**	**5.7034**	**2.5528**	**1.4126**	**3.1848**	**0.0000**	**4,528.5640**	**4,528.5640**	**0.9538**	**0.0000**	**4,552.4079**

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					
2020	3.4768	28.0257	27.7096	0.0481	5.0166	1.4916	5.7034	2.5528	1.4126	3.1848	0.0000	4,528.5639	4,528.5639	0.9538	0.0000	4,552.4079
2021	12.0158	25.7834	27.3031	0.0480	0.5149	1.2925	1.8074	0.1386	1.2239	1.3624	0.0000	4,510.7131	4,510.7131	0.9382	0.0000	4,534.1674
Maximum	**12.0158**	**28.0257**	**27.7096**	**0.0481**	**5.0166**	**1.4916**	**5.7034**	**2.5528**	**1.4126**	**3.1848**	**0.0000**	**4,528.5639**	**4,528.5639**	**0.9538**	**0.0000**	**4,552.4079**

	ROG	**NOx**	**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	1.8563	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Energy	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
Mobile	1.4479	4.3140	15.9492	0.0501	4.8838	0.0432	4.9270	1.3078	0.0403	1.3481		5,050.7014	5,050.7014	0.1914		5,055.4857
Total	**3.3867**	**5.0638**	**16.6003**	**0.0546**	**4.8838**	**0.1002**	**4.9841**	**1.3078**	**0.0974**	**1.4052**		**5,950.3230**	**5,950.3230**	**0.2087**	**0.0165**	**5,960.4560**

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	1.8563	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Energy	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
Mobile	1.3538	3.8471	13.9782	0.0413	3.9834	0.0365	4.0198	1.0667	0.0340	1.1007		4,163.7138	4,163.7138	0.1627		4,167.7813
Total	**3.2925**	**4.5970**	**14.6292**	**0.0458**	**3.9834**	**0.0935**	**4.0769**	**1.0667**	**0.0911**	**1.1577**		**5,063.3353**	**5,063.3353**	**0.1801**	**0.0165**	**5,072.7516**

	ROG	NOx	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	**2.78**	**9.22**	**11.87**	**16.09**	**18.44**	**6.71**	**18.20**	**18.44**	**6.47**	**17.61**	**0.00**	**14.91**	**14.91**	**13.74**	**0.00**	**14.89**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9162	0.0000	4.9162	2.5259	0.0000	2.5259			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9162**	**0.6844**	**5.6006**	**2.5259**	**0.6296**	**3.1555**		**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0179	0.6495	0.2729	1.6200e-003	0.0347	2.0400e-003	0.0368	9.5000e-003	1.9500e-003	0.0115		183.0152	183.0152	0.0231		183.5924
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0245	0.0161	0.1603	5.8000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.6000e-004	0.0178		57.5889	57.5889	1.1300e-003		57.6172
Total	**0.0424**	**0.6656**	**0.4332**	**2.2000e-003**	**0.1005**	**2.4400e-003**	**0.1029**	**0.0269**	**2.3100e-003**	**0.0293**		**240.6042**	**240.6042**	**0.0242**		**241.2096**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9162	0.0000	4.9162	2.5259	0.0000	2.5259			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9162**	**0.6844**	**5.6006**	**2.5259**	**0.6296**	**3.1555**	**0.0000**	**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0179	0.6495	0.2729	1.6200e-003	0.0347	2.0400e-003	0.0368	9.5000e-003	1.9500e-003	0.0115		183.0152	183.0152	0.0231		183.5924
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0245	0.0161	0.1603	5.8000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.6000e-004	0.0178		57.5889	57.5889	1.1300e-003		57.6172
Total	**0.0424**	**0.6656**	**0.4332**	**2.2000e-003**	**0.1005**	**2.4400e-003**	**0.1029**	**0.0269**	**2.3100e-003**	**0.0293**		**240.6042**	**240.6042**	**0.0242**		**241.2096**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2870	17.0449	16.3941	0.0256		0.9793	0.9793		0.9375	0.9375		2,348.4458	2,348.4458	0.4838		2,360.5411
Total	**2.2870**	**17.0449**	**16.3941**	**0.0256**		**0.9793**	**0.9793**		**0.9375**	**0.9375**		**2,348.4458**	**2,348.4458**	**0.4838**		**2,360.5411**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0517	1.5083	0.6264	3.4200e-003	0.0877	7.6200e-003	0.0954	0.0253	7.2900e-003	0.0325		375.8692	375.8692	0.0334		376.7044
Worker	0.0979	0.0644	0.6412	2.3100e-003	0.2629	1.5800e-003	0.2645	0.0697	1.4600e-003	0.0712		230.3557	230.3557	4.5300e-003		230.4689
Total	**0.1496**	**1.5726**	**1.2677**	**5.7300e-003**	**0.3506**	**9.2000e-003**	**0.3598**	**0.0950**	**8.7500e-003**	**0.1037**		**606.2250**	**606.2250**	**0.0379**		**607.1733**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2870	17.0449	16.3941	0.0256		0.9793	0.9793		0.9375	0.9375	0.0000	2,348.4458	2,348.4458	0.4838		2,360.5411
Total	**2.2870**	**17.0449**	**16.3941**	**0.0256**		**0.9793**	**0.9793**		**0.9375**	**0.9375**	**0.0000**	**2,348.4458**	**2,348.4458**	**0.4838**		**2,360.5411**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0517	1.5083	0.6264	3.4200e-003	0.0877	7.6200e-003	0.0954	0.0253	7.2900e-003	0.0325		375.8692	375.8692	0.0334		376.7044
Worker	0.0979	0.0644	0.6412	2.3100e-003	0.2629	1.5800e-003	0.2645	0.0697	1.4600e-003	0.0712		230.3557	230.3557	4.5300e-003		230.4689
Total	**0.1496**	**1.5726**	**1.2677**	**5.7300e-003**	**0.3506**	**9.2000e-003**	**0.3598**	**0.0950**	**8.7500e-003**	**0.1037**		**606.2250**	**606.2250**	**0.0379**		**607.1733**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0404	15.6778	16.1049	0.0256		0.8376	0.8376		0.8018	0.8018		2,348.6835	2,348.6835	0.4696		2,360.4246
Total	**2.0404**	**15.6778**	**16.1049**	**0.0256**		**0.8376**	**0.8376**		**0.8018**	**0.8018**		**2,348.6835**	**2,348.6835**	**0.4696**		**2,360.4246**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0428	1.3537	0.6059	3.3700e-003	0.0878	3.1900e-003	0.0909	0.0253	3.0500e-003	0.0283		371.2169	371.2169	0.0328		372.0365
Worker	0.0916	0.0577	0.5914	2.2300e-003	0.2629	1.5300e-003	0.2644	0.0697	1.4100e-003	0.0711		222.1627	222.1627	4.0600e-003		222.2642
Total	**0.1344**	**1.4115**	**1.1973**	**5.6000e-003**	**0.3506**	**4.7200e-003**	**0.3554**	**0.0950**	**4.4600e-003**	**0.0994**		**593.3796**	**593.3796**	**0.0368**		**594.3007**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0404	15.6778	16.1049	0.0256		0.8376	0.8376		0.8018	0.8018	0.0000	2,348.6835	2,348.6835	0.4696		2,360.4246
Total	**2.0404**	**15.6778**	**16.1049**	**0.0256**		**0.8376**	**0.8376**		**0.8018**	**0.8018**	**0.0000**	**2,348.6835**	**2,348.6835**	**0.4696**		**2,360.4246**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0428	1.3537	0.6059	3.3700e-003	0.0878	3.1900e-003	0.0909	0.0253	3.0500e-003	0.0283		371.2169	371.2169	0.0328		372.0365
Worker	0.0916	0.0577	0.5914	2.2300e-003	0.2629	1.5300e-003	0.2644	0.0697	1.4100e-003	0.0711		222.1627	222.1627	4.0600e-003		222.2642
Total	**0.1344**	**1.4115**	**1.1973**	**5.6000e-003**	**0.3506**	**4.7200e-003**	**0.3554**	**0.0950**	**4.4600e-003**	**0.0994**		**593.3796**	**593.3796**	**0.0368**		**594.3007**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9790	9.3679	9.6472	0.0153		0.5022	0.5022		0.4654	0.4654		1,429.9208	1,429.9208	0.4292		1,440.6504
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9790**	**9.3679**	**9.6472**	**0.0153**		**0.5022**	**0.5022**		**0.4654**	**0.4654**		**1,429.9208**	**1,429.9208**	**0.4292**		**1,440.6504**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0612	0.0402	0.4008	1.4400e-003	0.1643	9.9000e-004	0.1653	0.0436	9.1000e-004	0.0445		143.9723	143.9723	2.8300e-003		144.0431
Total	**0.0612**	**0.0402**	**0.4008**	**1.4400e-003**	**0.1643**	**9.9000e-004**	**0.1653**	**0.0436**	**9.1000e-004**	**0.0445**		**143.9723**	**143.9723**	**2.8300e-003**		**144.0431**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9790	9.3679	9.6472	0.0153		0.5022	0.5022		0.4654	0.4654	0.0000	1,429.9208	1,429.9208	0.4292		1,440.6504
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9790**	**9.3679**	**9.6472**	**0.0153**		**0.5022**	**0.5022**		**0.4654**	**0.4654**	**0.0000**	**1,429.9208**	**1,429.9208**	**0.4292**		**1,440.6504**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0612	0.0402	0.4008	1.4400e-003	0.1643	9.9000e-004	0.1653	0.0436	9.1000e-004	0.0445		143.9723	143.9723	2.8300e-003		144.0431
Total	**0.0612**	**0.0402**	**0.4008**	**1.4400e-003**	**0.1643**	**9.9000e-004**	**0.1653**	**0.0436**	**9.1000e-004**	**0.0445**		**143.9723**	**143.9723**	**2.8300e-003**		**144.0431**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9134	8.6580	9.6313	0.0153		0.4492	0.4492		0.4167	0.4167		1,429.7982	1,429.7982	0.4292		1,440.5269
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9134**	**8.6580**	**9.6313**	**0.0153**		**0.4492**	**0.4492**		**0.4167**	**0.4167**		**1,429.7982**	**1,429.7982**	**0.4292**		**1,440.5269**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003		138.9151
Total	**0.0573**	**0.0361**	**0.3696**	**1.3900e-003**	**0.1643**	**9.6000e-004**	**0.1653**	**0.0436**	**8.8000e-004**	**0.0445**		**138.8517**	**138.8517**	**2.5400e-003**		**138.9151**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9134	8.6580	9.6313	0.0153		0.4492	0.4492		0.4167	0.4167	0.0000	1,429.7982	1,429.7982	0.4292		1,440.5269
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9134**	**8.6580**	**9.6313**	**0.0153**		**0.4492**	**0.4492**		**0.4167**	**0.4167**	**0.0000**	**1,429.7982**	**1,429.7982**	**0.4292**		**1,440.5269**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003		138.9151
Total	**0.0573**	**0.0361**	**0.3696**	**1.3900e-003**	**0.1643**	**9.6000e-004**	**0.1653**	**0.0436**	**8.8000e-004**	**0.0445**		**138.8517**	**138.8517**	**2.5400e-003**		**138.9151**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**9.8239**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0172	0.0108	0.1109	4.2000e-004	0.0493	2.9000e-004	0.0496	0.0131	2.6000e-004	0.0133		41.6555	41.6555	7.6000e-004		41.6745
Total	**0.0172**	**0.0108**	**0.1109**	**4.2000e-004**	**0.0493**	**2.9000e-004**	**0.0496**	**0.0131**	**2.6000e-004**	**0.0133**		**41.6555**	**41.6555**	**7.6000e-004**		**41.6745**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.6050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**9.8239**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0172	0.0108	0.1109	4.2000e-004	0.0493	2.9000e-004	0.0496	0.0131	2.6000e-004	0.0133		41.6555	41.6555	7.6000e-004		41.6745
Total	**0.0172**	**0.0108**	**0.1109**	**4.2000e-004**	**0.0493**	**2.9000e-004**	**0.0496**	**0.0131**	**2.6000e-004**	**0.0133**		**41.6555**	**41.6555**	**7.6000e-004**		**41.6745**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3538	3.8471	13.9782	0.0413	3.9834	0.0365	4.0198	1.0667	0.0340	1.1007		4,163.7138	4,163.7138	0.1627		4,167.7813
Unmitigated	1.4479	4.3140	15.9492	0.0501	4.8838	0.0432	4.9270	1.3078	0.0403	1.3481		5,050.7014	5,050.7014	0.1914		5,055.4857

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	840.18	1,210.11	925.87	1,719,948	1,402,832
Total	840.18	1,210.11	925.87	1,719,948	1,402,832

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
NaturalGas Unmitigated	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	7646.39	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
Total		**0.0825**	**0.7497**	**0.6297**	**4.5000e-003**		**0.0570**	**0.0570**		**0.0570**	**0.0570**		**899.5758**	**899.5758**	**0.0172**	**0.0165**	**904.9215**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	7.64639	0.0825	0.7497	0.6297	4.5000e-003		0.0570	0.0570		0.0570	0.0570		899.5758	899.5758	0.0172	0.0165	904.9215
Total		**0.0825**	**0.7497**	**0.6297**	**4.5000e-003**		**0.0570**	**0.0570**		**0.0570**	**0.0570**		**899.5758**	**899.5758**	**0.0172**	**0.0165**	**904.9215**

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	1.8563	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Unmitigated	1.8563	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488

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	0.2184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Total	**1.8563**	**2.0000e-004**	**0.0214**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0457**	**0.0457**	**1.2000e-004**		**0.0488**

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	0.2184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9900e-003	2.0000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0457	0.0457	1.2000e-004		0.0488
Total	**1.8563**	**2.0000e-004**	**0.0214**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0457**	**0.0457**	**1.2000e-004**		**0.0488**

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 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

401 East Millbrae Avenue Project (Moxy Hotel) - 2022

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

401 East Millbrae Avenue Project (Moxy Hotel) - 2022 - San Mateo County, Annual

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblFleetMix	HHD	6.8130e-003	6.5250e-003
tblFleetMix	LDA	0.45	0.48
tblFleetMix	LDT1	0.05	0.05
tblFleetMix	LDT2	0.28	0.26
tblFleetMix	LHD1	0.02	0.02

tblFleetMix	LHD2	7.6330e-003	6.8640e-003
tblFleetMix	MCY	9.5100e-003	9.0640e-003
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MH	8.9600e-004	7.7700e-004
tblFleetMix	MHD	0.03	0.02
tblFleetMix	OBUS	4.4760e-003	4.1370e-003
tblFleetMix	SBUS	6.0500e-004	4.7100e-004
tblFleetMix	UBUS	2.8550e-003	3.1580e-003
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	5.79
tblVehicleTrips	SU_TR	5.95	4.43
tblVehicleTrips	WD_TR	8.17	4.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94
tblWater	SepticTankPercent	10.33	0.00

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2855	262.2855	0.0575	0.0000	263.7236
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3272	242.3272	0.0407	0.0000	243.3454
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2855**	**262.2855**	**0.0575**	**0.0000**	**263.7236**

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2852	262.2852	0.0575	0.0000	263.7234
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3269	242.3269	0.0407	0.0000	243.3451
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2852**	**262.2852**	**0.0575**	**0.0000**	**263.7234**

	ROG	NOx	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	0.7415	0.7415
2	**9-1-2020**	**11-30-2020**	1.0232	1.0232
3	**12-1-2020**	**2-28-2021**	0.7823	0.7823
4	**3-1-2021**	**5-31-2021**	0.7499	0.7499
5	**6-1-2021**	**8-31-2021**	0.9398	0.9398
		Highest	1.0232	1.0232

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.4963**	**0.5104**	**1.5761**	**6.3200e-003**	**0.6372**	**0.0142**	**0.6513**	**0.1712**	**0.0139**	**0.1850**	**24.7289**	**736.1189**	**760.8477**	**1.4369**	**6.8100e-003**	**798.7985**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.4861**	**0.4765**	**1.3807**	**5.3600e-003**	**0.5197**	**0.0136**	**0.5333**	**0.1396**	**0.0134**	**0.1530**	**24.7289**	**647.2873**	**672.0161**	**1.4339**	**6.8100e-003**	**709.8938**

	ROG	**NOx**	**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	**2.05**	**6.65**	**12.40**	**15.19**	**18.44**	**3.96**	**18.12**	**18.43**	**3.75**	**17.34**	**0.00**	**12.07**	**11.68**	**0.20**	**0.00**	**11.13**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3987	25.3987	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3987**	**25.3987**	**8.2100e-003**	**0.0000**	**25.6040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3986	25.3986	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3986**	**25.3986**	**8.2100e-003**	**0.0000**	**25.6040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3718	120.3718	0.0248	0.0000	120.9918
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3718**	**120.3718**	**0.0248**	**0.0000**	**120.9918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3717	120.3717	0.0248	0.0000	120.9916
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3717**	**120.3717**	**0.0248**	**0.0000**	**120.9916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0433	180.0433	0.0360	0.0000	180.9433
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0433**	**180.0433**	**0.0360**	**0.0000**	**180.9433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0431	180.0431	0.0360	0.0000	180.9431
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0431**	**180.0431**	**0.0360**	**0.0000**	**180.9431**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2919	73.2919	0.0220	0.0000	73.8419
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2919**	**73.2919**	**0.0220**	**0.0000**	**73.8419**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2918	73.2918	0.0220	0.0000	73.8418
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2918**	**73.2918**	**0.0220**	**0.0000**	**73.8418**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Unmitigated	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	840.18	1,210.11	925.87	1,719,948	1,402,832
Total	840.18	1,210.11	925.87	1,719,948	1,402,832

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
NaturalGas Mitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
NaturalGas Unmitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199

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					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Unmitigated	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.8888	0.0394	3.3000e-003	6.8561
Unmitigated	4.8888	0.0394	3.3000e-003	6.8561

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2283	1.3728	0.0000	57.5470
Unmitigated	23.2283	1.3728	0.0000	57.5470

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Construction Equipment Mitigation

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Construction Equipment Mitigation - San Mateo County, Annual

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Water Mitigation -

Construction Off-road Equipment Mitigation - CNG fuel mitigation

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	FuelType	Diesel	Electrical
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	3.00
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblFleetMix	HHD	6.8130e-003	6.5250e-003
tblFleetMix	LDA	0.45	0.48
tblFleetMix	LDT1	0.05	0.05
tblFleetMix	LDT2	0.28	0.26
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.6330e-003	6.8640e-003
tblFleetMix	MCY	9.5100e-003	9.0640e-003
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MH	8.9600e-004	7.7700e-004
tblFleetMix	MHD	0.03	0.02
tblFleetMix	OBUS	4.4760e-003	4.1370e-003
tblFleetMix	SBUS	6.0500e-004	4.7100e-004
tblFleetMix	UBUS	2.8550e-003	3.1580e-003
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00

tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	5.79
tblVehicleTrips	SU_TR	5.95	4.43
tblVehicleTrips	WD_TR	8.17	4.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94
tblWater	SepticTankPercent	10.33	0.00

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2855	262.2855	0.0575	0.0000	263.7236
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3272	242.3272	0.0407	0.0000	243.3454
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2855**	**262.2855**	**0.0575**	**0.0000**	**263.7236**

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					
2020	0.1194	1.2119	0.9513	3.0600e-003	0.1307	0.0583	0.1890	0.0599	0.0538	0.1137	0.0000	166.8446	166.8446	0.0408	0.0000	167.8644
2021	0.4611	0.6648	0.5903	2.8300e-003	0.0309	0.0287	0.0596	8.3800e-003	0.0264	0.0348	0.0000	118.1622	118.1622	0.0255	0.0000	118.7996
Maximum	**0.4611**	**1.2119**	**0.9513**	**3.0600e-003**	**0.1307**	**0.0583**	**0.1890**	**0.0599**	**0.0538**	**0.1137**	**0.0000**	**166.8446**	**166.8446**	**0.0408**	**0.0000**	**167.8644**

	ROG	**NOx**	**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	**29.03**	**45.43**	**52.88**	**0.00**	**0.00**	**50.25**	**26.11**	**0.00**	**51.68**	**36.63**	**0.00**	**43.52**	**43.52**	**32.54**	**0.00**	**43.47**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	0.7415	0.5649
2	**9-1-2020**	**11-30-2020**	1.0232	0.5640
3	**12-1-2020**	**2-28-2021**	0.7823	0.3897
4	**3-1-2021**	**5-31-2021**	0.7499	0.3730
5	**6-1-2021**	**8-31-2021**	0.9398	0.5507
		Highest	1.0232	0.5649

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.4963**	**0.5104**	**1.5761**	**6.3200e-003**	**0.6372**	**0.0142**	**0.6513**	**0.1712**	**0.0139**	**0.1850**	**24.7289**	**736.1189**	**760.8477**	**1.4369**	**6.8100e-003**	**798.7985**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3712	4.8718	0.0394	3.3000e-003	6.8389
Total	**0.4861**	**0.4765**	**1.3807**	**5.3600e-003**	**0.5197**	**0.0136**	**0.5333**	**0.1396**	**0.0134**	**0.1530**	**24.7289**	**647.2702**	**671.9991**	**1.4339**	**6.8100e-003**	**709.8766**

	ROG	NOx	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	**2.05**	**6.65**	**12.40**	**15.19**	**18.44**	**3.96**	**18.12**	**18.43**	**3.75**	**17.34**	**0.00**	**12.07**	**11.68**	**0.20**	**0.00**	**11.13**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	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

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3987	25.3987	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3987**	**25.3987**	**8.2100e-003**	**0.0000**	**25.6040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3986	25.3986	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3986**	**25.3986**	**8.2100e-003**	**0.0000**	**25.6040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3718	120.3718	0.0248	0.0000	120.9918
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3718**	**120.3718**	**0.0248**	**0.0000**	**120.9918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0365	0.3902	0.3174	1.4500e-003		0.0213	0.0213		0.0196	0.0196	0.0000	45.1529	45.1529	0.0146	0.0000	45.5180
Total	**0.0365**	**0.3902**	**0.3174**	**1.4500e-003**		**0.0213**	**0.0213**		**0.0196**	**0.0196**	**0.0000**	**45.1529**	**45.1529**	**0.0146**	**0.0000**	**45.5180**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0433	180.0433	0.0360	0.0000	180.9433
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0433**	**180.0433**	**0.0360**	**0.0000**	**180.9433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0491	0.5253	0.4658	2.1700e-003		0.0272	0.0272		0.0250	0.0250	0.0000	67.5478	67.5478	0.0219	0.0000	68.0940
Total	**0.0491**	**0.5253**	**0.4658**	**2.1700e-003**		**0.0272**	**0.0272**		**0.0250**	**0.0250**	**0.0000**	**67.5478**	**67.5478**	**0.0219**	**0.0000**	**68.0940**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2919	73.2919	0.0220	0.0000	73.8419
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2919**	**73.2919**	**0.0220**	**0.0000**	**73.8419**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0436	0.4083	0.4019	8.7000e-004		0.0223	0.0223		0.0207	0.0207	0.0000	53.0700	53.0700	0.0155	0.0000	53.4564
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0436**	**0.4083**	**0.4019**	**8.7000e-004**		**0.0223**	**0.0223**		**0.0207**	**0.0207**	**0.0000**	**53.0700**	**53.0700**	**0.0155**	**0.0000**	**53.4564**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1600e-003	0.0202	0.0213	5.0000e-005		1.0600e-003	1.0600e-003		9.9000e-004	9.9000e-004	0.0000	2.8177	2.8177	8.2000e-004	0.0000	2.8383
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.1600e-003**	**0.0202**	**0.0213**	**5.0000e-005**		**1.0600e-003**	**1.0600e-003**		**9.9000e-004**	**9.9000e-004**	**0.0000**	**2.8177**	**2.8177**	**8.2000e-004**	**0.0000**	**2.8383**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	1.2000e-004		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.3986**	**0.0000**	**0.0000**	**1.2000e-004**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Unmitigated	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	840.18	1,210.11	925.87	1,719,948	1,402,832
Total	840.18	1,210.11	925.87	1,719,948	1,402,832

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
NaturalGas Mitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
NaturalGas Unmitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199

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					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Unmitigated	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.8718	0.0394	3.3000e-003	6.8389
Unmitigated	4.8888	0.0394	3.3000e-003	6.8561

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.553139	4.8718	0.0394	3.3000e-003	6.8389
Total		**4.8718**	**0.0394**	**3.3000e-003**	**6.8389**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2283	1.3728	0.0000	57.5470
Unmitigated	23.2283	1.3728	0.0000	57.5470

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Graywater Mitigation

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Graywater Mitigation - San Mateo County, Annual

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblFleetMix	HHD	6.8130e-003	6.5250e-003
tblFleetMix	LDA	0.45	0.48
tblFleetMix	LDT1	0.05	0.05
tblFleetMix	LDT2	0.28	0.26

tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.6330e-003	6.8640e-003
tblFleetMix	MCY	9.5100e-003	9.0640e-003
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MH	8.9600e-004	7.7700e-004
tblFleetMix	MHD	0.03	0.02
tblFleetMix	OBUS	4.4760e-003	4.1370e-003
tblFleetMix	SBUS	6.0500e-004	4.7100e-004
tblFleetMix	UBUS	2.8550e-003	3.1580e-003
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	5.79
tblVehicleTrips	SU_TR	5.95	4.43
tblVehicleTrips	WD_TR	8.17	4.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94

tblWater	SepticTankPercent	10.33	0.00

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2855	262.2855	0.0575	0.0000	263.7236
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3272	242.3272	0.0407	0.0000	243.3454
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2855**	**262.2855**	**0.0575**	**0.0000**	**263.7236**

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2852	262.2852	0.0575	0.0000	263.7234
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3269	242.3269	0.0407	0.0000	243.3451
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2852**	**262.2852**	**0.0575**	**0.0000**	**263.7234**

	ROG	NOx	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	0.7415	0.7415
2	**9-1-2020**	**11-30-2020**	1.0232	1.0232
3	**12-1-2020**	**2-28-2021**	0.7823	0.7823
4	**3-1-2021**	**5-31-2021**	0.7499	0.7499
5	**6-1-2021**	**8-31-2021**	0.9398	0.9398
		Highest	1.0232	1.0232

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.4963**	**0.5104**	**1.5761**	**6.3200e-003**	**0.6372**	**0.0142**	**0.6513**	**0.1712**	**0.0139**	**0.1850**	**24.7289**	**736.1189**	**760.8477**	**1.4369**	**6.8100e-003**	**798.7985**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.1254	2.3317	3.4571	0.0295	2.4700e-003	4.9317
Total	**0.4861**	**0.4765**	**1.3807**	**5.3600e-003**	**0.5197**	**0.0136**	**0.5333**	**0.1396**	**0.0134**	**0.1530**	**24.3537**	**646.2308**	**670.5845**	**1.4241**	**5.9800e-003**	**707.9694**

	ROG	NOx	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	**2.05**	**6.65**	**12.40**	**15.19**	**18.44**	**3.96**	**18.12**	**18.43**	**3.75**	**17.34**	**1.52**	**12.21**	**11.86**	**0.89**	**12.19**	**11.37**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3987	25.3987	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3987**	**25.3987**	**8.2100e-003**	**0.0000**	**25.6040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3986	25.3986	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3986**	**25.3986**	**8.2100e-003**	**0.0000**	**25.6040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3718	120.3718	0.0248	0.0000	120.9918
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3718**	**120.3718**	**0.0248**	**0.0000**	**120.9918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3717	120.3717	0.0248	0.0000	120.9916
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3717**	**120.3717**	**0.0248**	**0.0000**	**120.9916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0433	180.0433	0.0360	0.0000	180.9433
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0433**	**180.0433**	**0.0360**	**0.0000**	**180.9433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0431	180.0431	0.0360	0.0000	180.9431
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0431**	**180.0431**	**0.0360**	**0.0000**	**180.9431**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2919	73.2919	0.0220	0.0000	73.8419
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2919**	**73.2919**	**0.0220**	**0.0000**	**73.8419**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2918	73.2918	0.0220	0.0000	73.8418
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2918**	**73.2918**	**0.0220**	**0.0000**	**73.8418**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Unmitigated	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	840.18	1,210.11	925.87	1,719,948	1,402,832
Total	840.18	1,210.11	925.87	1,719,948	1,402,832

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
NaturalGas Mitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
NaturalGas Unmitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199

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					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Unmitigated	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Grey Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.4571	0.0295	2.4700e-003	4.9317
Unmitigated	4.8888	0.0394	3.3000e-003	6.8561

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.18099 / 0	3.4571	0.0295	2.4700e-003	4.9317
Total		**3.4571**	**0.0295**	**2.4700e-003**	**4.9317**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2283	1.3728	0.0000	57.5470
Unmitigated	23.2283	1.3728	0.0000	57.5470

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Reclaimed Water Mitigation

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Reclaimed Water Mitigation - San Mateo County, Annual

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblFleetMix	HHD	6.8130e-003	6.5250e-003
tblFleetMix	LDA	0.45	0.48
tblFleetMix	LDT1	0.05	0.05
tblFleetMix	LDT2	0.28	0.26

tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.6330e-003	6.8640e-003
tblFleetMix	MCY	9.5100e-003	9.0640e-003
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MH	8.9600e-004	7.7700e-004
tblFleetMix	MHD	0.03	0.02
tblFleetMix	OBUS	4.4760e-003	4.1370e-003
tblFleetMix	SBUS	6.0500e-004	4.7100e-004
tblFleetMix	UBUS	2.8550e-003	3.1580e-003
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	5.79
tblVehicleTrips	SU_TR	5.95	4.43
tblVehicleTrips	WD_TR	8.17	4.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94

tblWater	SepticTankPercent	10.33	0.00

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2855	262.2855	0.0575	0.0000	263.7236
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3272	242.3272	0.0407	0.0000	243.3454
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2855**	**262.2855**	**0.0575**	**0.0000**	**263.7236**

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2852	262.2852	0.0575	0.0000	263.7234
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3269	242.3269	0.0407	0.0000	243.3451
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2852**	**262.2852**	**0.0575**	**0.0000**	**263.7234**

	ROG	NOx	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	0.7415	0.7415
2	**9-1-2020**	**11-30-2020**	1.0232	1.0232
3	**12-1-2020**	**2-28-2021**	0.7823	0.7823
4	**3-1-2021**	**5-31-2021**	0.7499	0.7499
5	**6-1-2021**	**8-31-2021**	0.9398	0.9398
		Highest	1.0232	1.0232

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.4963**	**0.5104**	**1.5761**	**6.3200e-003**	**0.6372**	**0.0142**	**0.6513**	**0.1712**	**0.0139**	**0.1850**	**24.7289**	**736.1189**	**760.8477**	**1.4369**	**6.8100e-003**	**798.7985**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.2765	4.7771	0.0394	3.3000e-003	6.7439
Total	**0.4861**	**0.4765**	**1.3807**	**5.3600e-003**	**0.5197**	**0.0136**	**0.5333**	**0.1396**	**0.0134**	**0.1530**	**24.7289**	**647.1756**	**671.9044**	**1.4339**	**6.8100e-003**	**709.7816**

	ROG	NOx	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	**2.05**	**6.65**	**12.40**	**15.19**	**18.44**	**3.96**	**18.12**	**18.43**	**3.75**	**17.34**	**0.00**	**12.08**	**11.69**	**0.20**	**0.00**	**11.14**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3987	25.3987	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3987**	**25.3987**	**8.2100e-003**	**0.0000**	**25.6040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3986	25.3986	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3986**	**25.3986**	**8.2100e-003**	**0.0000**	**25.6040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3718	120.3718	0.0248	0.0000	120.9918
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3718**	**120.3718**	**0.0248**	**0.0000**	**120.9918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3717	120.3717	0.0248	0.0000	120.9916
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3717**	**120.3717**	**0.0248**	**0.0000**	**120.9916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0433	180.0433	0.0360	0.0000	180.9433
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0433**	**180.0433**	**0.0360**	**0.0000**	**180.9433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0431	180.0431	0.0360	0.0000	180.9431
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0431**	**180.0431**	**0.0360**	**0.0000**	**180.9431**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2919	73.2919	0.0220	0.0000	73.8419
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2919**	**73.2919**	**0.0220**	**0.0000**	**73.8419**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2918	73.2918	0.0220	0.0000	73.8418
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2918**	**73.2918**	**0.0220**	**0.0000**	**73.8418**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Unmitigated	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	840.18	1,210.11	925.87	1,719,948	1,402,832
Total	840.18	1,210.11	925.87	1,719,948	1,402,832

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
NaturalGas Mitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
NaturalGas Unmitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199

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					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Unmitigated	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.7771	0.0394	3.3000e-003	6.7439
Unmitigated	4.8888	0.0394	3.3000e-003	6.8561

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.353444	4.7771	0.0394	3.3000e-003	6.7439
Total		**4.7771**	**0.0394**	**3.3000e-003**	**6.7439**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2283	1.3728	0.0000	57.5470
Unmitigated	23.2283	1.3728	0.0000	57.5470

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Water Efficient Fixtures Mitigation

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Water Efficient Fixtures Mitigation - San Mateo County, Annual

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblFleetMix	HHD	6.8130e-003	6.5250e-003
tblFleetMix	LDA	0.45	0.48
tblFleetMix	LDT1	0.05	0.05
tblFleetMix	LDT2	0.28	0.26

tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.6330e-003	6.8640e-003
tblFleetMix	MCY	9.5100e-003	9.0640e-003
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MH	8.9600e-004	7.7700e-004
tblFleetMix	MHD	0.03	0.02
tblFleetMix	OBUS	4.4760e-003	4.1370e-003
tblFleetMix	SBUS	6.0500e-004	4.7100e-004
tblFleetMix	UBUS	2.8550e-003	3.1580e-003
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	5.79
tblVehicleTrips	SU_TR	5.95	4.43
tblVehicleTrips	WD_TR	8.17	4.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94

tblWater	SepticTankPercent	10.33	0.00

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2855	262.2855	0.0575	0.0000	263.7236
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3272	242.3272	0.0407	0.0000	243.3454
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2855**	**262.2855**	**0.0575**	**0.0000**	**263.7236**

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2852	262.2852	0.0575	0.0000	263.7234
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3269	242.3269	0.0407	0.0000	243.3451
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2852**	**262.2852**	**0.0575**	**0.0000**	**263.7234**

	ROG	NOx	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	0.7415	0.7415
2	**9-1-2020**	**11-30-2020**	1.0232	1.0232
3	**12-1-2020**	**2-28-2021**	0.7823	0.7823
4	**3-1-2021**	**5-31-2021**	0.7499	0.7499
5	**6-1-2021**	**8-31-2021**	0.9398	0.9398
		Highest	1.0232	1.0232

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.4963**	**0.5104**	**1.5761**	**6.3200e-003**	**0.6372**	**0.0142**	**0.6513**	**0.1712**	**0.0139**	**0.1850**	**24.7289**	**736.1189**	**760.8477**	**1.4369**	**6.8100e-003**	**798.7985**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.2005	2.7664	3.9669	0.0315	2.6400e-003	5.5409
Total	**0.4861**	**0.4765**	**1.3807**	**5.3600e-003**	**0.5197**	**0.0136**	**0.5333**	**0.1396**	**0.0134**	**0.1530**	**24.4287**	**646.6655**	**671.0942**	**1.4261**	**6.1500e-003**	**708.5786**

	ROG	NOx	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	**2.05**	**6.65**	**12.40**	**15.19**	**18.44**	**3.96**	**18.12**	**18.43**	**3.75**	**17.34**	**1.21**	**12.15**	**11.80**	**0.75**	**9.69**	**11.29**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3987	25.3987	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3987**	**25.3987**	**8.2100e-003**	**0.0000**	**25.6040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3986	25.3986	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3986**	**25.3986**	**8.2100e-003**	**0.0000**	**25.6040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3718	120.3718	0.0248	0.0000	120.9918
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3718**	**120.3718**	**0.0248**	**0.0000**	**120.9918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3717	120.3717	0.0248	0.0000	120.9916
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3717**	**120.3717**	**0.0248**	**0.0000**	**120.9916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0433	180.0433	0.0360	0.0000	180.9433
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0433**	**180.0433**	**0.0360**	**0.0000**	**180.9433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0431	180.0431	0.0360	0.0000	180.9431
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0431**	**180.0431**	**0.0360**	**0.0000**	**180.9431**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2919	73.2919	0.0220	0.0000	73.8419
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2919**	**73.2919**	**0.0220**	**0.0000**	**73.8419**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2918	73.2918	0.0220	0.0000	73.8418
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2918**	**73.2918**	**0.0220**	**0.0000**	**73.8418**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1325	0.3397	1.2639	4.5400e-003	0.5197	3.1800e-003	0.5229	0.1396	2.9500e-003	0.1426	0.0000	417.1916	417.1916	0.0153	0.0000	417.5740
Unmitigated	0.1426	0.3736	1.4593	5.5000e-003	0.6372	3.7400e-003	0.6409	0.1712	3.4700e-003	0.1746	0.0000	506.0232	506.0232	0.0182	0.0000	506.4787

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	840.18	1,210.11	925.87	1,719,948	1,402,832
Total	840.18	1,210.11	925.87	1,719,948	1,402,832

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
NaturalGas Mitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
NaturalGas Unmitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199

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					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Unmitigated	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.9669	0.0315	2.6400e-003	5.5409
Unmitigated	4.8888	0.0394	3.3000e-003	6.8561

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.39306 / 0.589073	3.9669	0.0315	2.6400e-003	5.5409
Total		**3.9669**	**0.0315**	**2.6400e-003**	**5.5409**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2283	1.3728	0.0000	57.5470
Unmitigated	23.2283	1.3728	0.0000	57.5470

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Trip Reduction Mitigation

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	209.00	Room	1.00	76,443.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

401 East Millbrae Avenue Project (Moxy Hotel) - 2030 - Trip Reduction Mitigation - San Mateo County, Annual

Project Characteristics - Energy intensity factors updated to reflect 60% renewable energy requirement in SB100

Land Use - 76,443 SF new 209-room hotel, approximately 1 acre of disturbance area

Construction Phase - Assume 8 weeks grading, 56 weeks construction, architectural coating overlaps with building construction, paving to follow completion of subterranean parking structure

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Grading - Assume 657 cubic yards exported

Architectural Coating - BAAQMD Regulation 8, Rule 3

Vehicle Trips - Weekday and weekend trip rates for ITE 312 Business Hotel

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - reduce title-24 electricity energy intensity by 30% to reflect 2019 standards

Water And Wastewater - Reduce indoor water use to reflect 2016 Title 24 standards. No septic tanks.

Mobile Land Use Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	83.00
tblConstructionPhase	NumDays	100.00	282.00
tblConstructionPhase	NumDays	2.00	41.00
tblEnergyUse	T24E	2.19	1.53
tblFleetMix	HHD	6.8130e-003	6.5250e-003
tblFleetMix	LDA	0.45	0.48
tblFleetMix	LDT1	0.05	0.05
tblFleetMix	LDT2	0.28	0.26

tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.6330e-003	6.8640e-003
tblFleetMix	MCY	9.5100e-003	9.0640e-003
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MH	8.9600e-004	7.7700e-004
tblFleetMix	MHD	0.03	0.02
tblFleetMix	OBUS	4.4760e-003	4.1370e-003
tblFleetMix	SBUS	6.0500e-004	4.7100e-004
tblFleetMix	UBUS	2.8550e-003	3.1580e-003
tblGrading	MaterialExported	0.00	657.00
tblLandUse	LandUseSquareFeet	303,468.00	76,443.00
tblLandUse	LotAcreage	6.97	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	8.19	4.34
tblVehicleTrips	SU_TR	5.95	3.32
tblVehicleTrips	WD_TR	8.17	3.02
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	5,301,654.93	4,241,323.94

tblWater	SepticTankPercent	10.33	0.00

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2855	262.2855	0.0575	0.0000	263.7236
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3272	242.3272	0.0407	0.0000	243.3454
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2855**	**262.2855**	**0.0575**	**0.0000**	**263.7236**

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					
2020	0.2239	1.9057	1.7034	3.0600e-003	0.1307	0.0984	0.2290	0.0599	0.0928	0.1526	0.0000	262.2852	262.2852	0.0575	0.0000	263.7234
2021	0.5940	1.5335	1.5684	2.8300e-003	0.0309	0.0764	0.1073	8.3800e-003	0.0733	0.0817	0.0000	242.3269	242.3269	0.0407	0.0000	243.3451
Maximum	**0.5940**	**1.9057**	**1.7034**	**3.0600e-003**	**0.1307**	**0.0984**	**0.2290**	**0.0599**	**0.0928**	**0.1526**	**0.0000**	**262.2852**	**262.2852**	**0.0575**	**0.0000**	**263.7234**

	ROG	NOx	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	0.7415	0.7415
2	**9-1-2020**	**11-30-2020**	1.0232	1.0232
3	**12-1-2020**	**2-28-2021**	0.7823	0.7823
4	**3-1-2021**	**5-31-2021**	0.7499	0.7499
5	**6-1-2021**	**8-31-2021**	0.9398	0.9398
		Highest	1.0232	1.0232

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.1071	0.2805	1.0954	4.1300e-003	0.4783	2.8100e-003	0.4811	0.1285	2.6100e-003	0.1311	0.0000	379.8512	379.8512	0.0137	0.0000	380.1931
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3882	4.8888	0.0394	3.3000e-003	6.8561
Total	**0.4607**	**0.4173**	**1.2123**	**4.9500e-003**	**0.4783**	**0.0132**	**0.4915**	**0.1285**	**0.0130**	**0.1415**	**24.7289**	**609.9469**	**634.6757**	**1.4323**	**6.8100e-003**	**672.5129**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Energy	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	226.7038	226.7038	6.5000e-003	3.5100e-003	227.9127
Mobile	0.0994	0.2550	0.9487	3.4100e-003	0.3901	2.3800e-003	0.3925	0.1048	2.2100e-003	0.1070	0.0000	313.1689	313.1689	0.0115	0.0000	313.4559
Waste						0.0000	0.0000		0.0000	0.0000	23.2283	0.0000	23.2283	1.3728	0.0000	57.5470
Water						0.0000	0.0000		0.0000	0.0000	1.5006	3.3712	4.8718	0.0394	3.3000e-003	6.8389
Total	**0.4531**	**0.3918**	**1.0656**	**4.2300e-003**	**0.3901**	**0.0128**	**0.4029**	**0.1048**	**0.0126**	**0.1174**	**24.7289**	**543.2475**	**567.9764**	**1.4301**	**6.8100e-003**	**605.7586**

	ROG	NOx	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	**1.66**	**6.11**	**12.10**	**14.55**	**18.44**	**3.25**	**18.03**	**18.44**	**3.07**	**17.02**	**0.00**	**10.94**	**10.51**	**0.15**	**0.00**	**9.93**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	7/27/2020	5	41	
2	Building Construction	Building Construction	7/28/2020	8/25/2021	5	282	
3	Paving	Paving	7/28/2020	1/8/2021	5	5	
4	Architectural Coating	Architectural Coating	5/3/2021	8/25/2021	5	83	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.38

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 114,665; Non-Residential Outdoor: 38,222; Striped Parking Area: 0 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0		81	0.73
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Grading	3	8.00	0.00	82.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	32.00	13.00	0.00	10.80	7.30	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	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3987	25.3987	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3987**	**25.3987**	**8.2100e-003**	**0.0000**	**25.6040**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1008	0.0000	0.1008	0.0518	0.0000	0.0518	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3093	0.1323	2.9000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	25.3986	25.3986	8.2100e-003	0.0000	25.6040
Total	**0.0277**	**0.3093**	**0.1323**	**2.9000e-004**	**0.1008**	**0.0140**	**0.1148**	**0.0518**	**0.0129**	**0.0647**	**0.0000**	**25.3986**	**25.3986**	**8.2100e-003**	**0.0000**	**25.6040**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0132	5.5200e-003	3.0000e-005	6.9000e-004	4.0000e-005	7.3000e-004	1.9000e-004	4.0000e-005	2.3000e-004	0.0000	3.4248	3.4248	4.3000e-004	0.0000	3.4355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.0000e-004	3.1900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0751	1.0751	2.0000e-005	0.0000	1.0756
Total	**8.1000e-004**	**0.0135**	**8.7100e-003**	**4.0000e-005**	**1.9800e-003**	**5.0000e-005**	**2.0300e-003**	**5.3000e-004**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**4.4999**	**4.4999**	**4.5000e-004**	**0.0000**	**4.5111**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3718	120.3718	0.0248	0.0000	120.9918
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3718**	**120.3718**	**0.0248**	**0.0000**	**120.9918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1292	0.9630	0.9263	1.4500e-003		0.0553	0.0553		0.0530	0.0530	0.0000	120.3717	120.3717	0.0248	0.0000	120.9916
Total	**0.1292**	**0.9630**	**0.9263**	**1.4500e-003**		**0.0553**	**0.0553**		**0.0530**	**0.0530**	**0.0000**	**120.3717**	**120.3717**	**0.0248**	**0.0000**	**120.9916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8500e-003	0.0852	0.0339	2.0000e-004	4.7900e-003	4.2000e-004	5.2100e-003	1.3800e-003	4.1000e-004	1.7900e-003	0.0000	19.4638	19.4638	1.6900e-003	0.0000	19.5061
Worker	4.9300e-003	3.3400e-003	0.0352	1.3000e-004	0.0142	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	11.8520	11.8520	2.3000e-004	0.0000	11.8577
Total	**7.7800e-003**	**0.0885**	**0.0691**	**3.3000e-004**	**0.0190**	**5.1000e-004**	**0.0195**	**5.1700e-003**	**4.9000e-004**	**5.6600e-003**	**0.0000**	**31.3158**	**31.3158**	**1.9200e-003**	**0.0000**	**31.3638**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0433	180.0433	0.0360	0.0000	180.9433
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0433**	**180.0433**	**0.0360**	**0.0000**	**180.9433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1724	1.3248	1.3609	2.1700e-003		0.0708	0.0708		0.0678	0.0678	0.0000	180.0431	180.0431	0.0360	0.0000	180.9431
Total	**0.1724**	**1.3248**	**1.3609**	**2.1700e-003**		**0.0708**	**0.0708**		**0.0678**	**0.0678**	**0.0000**	**180.0431**	**180.0431**	**0.0360**	**0.0000**	**180.9431**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1144	0.0491	2.9000e-004	7.1600e-003	2.6000e-004	7.4200e-003	2.0700e-003	2.5000e-004	2.3200e-003	0.0000	28.7481	28.7481	2.4800e-003	0.0000	28.8102
Worker	6.8900e-003	4.4800e-003	0.0486	1.9000e-004	0.0213	1.3000e-004	0.0214	5.6600e-003	1.2000e-004	5.7800e-003	0.0000	17.0950	17.0950	3.1000e-004	0.0000	17.1027
Total	**0.0104**	**0.1189**	**0.0977**	**4.8000e-004**	**0.0285**	**3.9000e-004**	**0.0288**	**7.7300e-003**	**3.7000e-004**	**8.1000e-003**	**0.0000**	**45.8431**	**45.8431**	**2.7900e-003**	**0.0000**	**45.9129**

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2919	73.2919	0.0220	0.0000	73.8419
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2919**	**73.2919**	**0.0220**	**0.0000**	**73.8419**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0553	0.5293	0.5451	8.7000e-004		0.0284	0.0284		0.0263	0.0263	0.0000	73.2918	73.2918	0.0220	0.0000	73.8418
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0553**	**0.5293**	**0.5451**	**8.7000e-004**		**0.0284**	**0.0284**		**0.0263**	**0.0263**	**0.0000**	**73.2918**	**73.2918**	**0.0220**	**0.0000**	**73.8418**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0800e-003	2.0900e-003	0.0220	8.0000e-005	8.9000e-003	6.0000e-005	8.9500e-003	2.3700e-003	5.0000e-005	2.4200e-003	0.0000	7.4075	7.4075	1.4000e-004	0.0000	7.4111
Total	**3.0800e-003**	**2.0900e-003**	**0.0220**	**8.0000e-005**	**8.9000e-003**	**6.0000e-005**	**8.9500e-003**	**2.3700e-003**	**5.0000e-005**	**2.4200e-003**	**0.0000**	**7.4075**	**7.4075**	**1.4000e-004**	**0.0000**	**7.4111**

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7400e-003	0.0260	0.0289	5.0000e-005		1.3500e-003	1.3500e-003		1.2500e-003	1.2500e-003	0.0000	3.8913	3.8913	1.1700e-003	0.0000	3.9205
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.7400e-003**	**0.0260**	**0.0289**	**5.0000e-005**		**1.3500e-003**	**1.3500e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**3.8913**	**3.8913**	**1.1700e-003**	**0.0000**	**3.9205**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.0800e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3793	0.3793	1.0000e-005	0.0000	0.3795
Total	**1.5000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3793**	**0.3793**	**1.0000e-005**	**0.0000**	**0.3795**

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0800e-003	0.0634	0.0754	1.2000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	10.5960	10.5960	7.3000e-004	0.0000	10.6142
Total	**0.4077**	**0.0634**	**0.0754**	**1.2000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**10.5960**	**10.5960**	**7.3000e-004**	**0.0000**	**10.6142**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.3000e-004	4.1000e-004	4.4700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5742	1.5742	3.0000e-005	0.0000	1.5749
Total	**6.3000e-004**	**4.1000e-004**	**4.4700e-003**	**2.0000e-005**	**1.9600e-003**	**1.0000e-005**	**1.9700e-003**	**5.2000e-004**	**1.0000e-005**	**5.3000e-004**	**0.0000**	**1.5742**	**1.5742**	**3.0000e-005**	**0.0000**	**1.5749**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0994	0.2550	0.9487	3.4100e-003	0.3901	2.3800e-003	0.3925	0.1048	2.2100e-003	0.1070	0.0000	313.1689	313.1689	0.0115	0.0000	313.4559
Unmitigated	0.1071	0.2805	1.0954	4.1300e-003	0.4783	2.8100e-003	0.4811	0.1285	2.6100e-003	0.1311	0.0000	379.8512	379.8512	0.0137	0.0000	380.1931

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	631.18	907.06	693.88	1,291,095	1,053,049
Total	631.18	907.06	693.88	1,291,095	1,053,049

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.476244	0.050164	0.262181	0.139658	0.017521	0.006864	0.023236	0.006525	0.004137	0.003158	0.009064	0.000471	0.000777

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	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.7689	77.7689	3.6500e-003	7.8000e-004	78.0928
NaturalGas Mitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
NaturalGas Unmitigated	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199

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					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.79093e+006	0.0151	0.1368	0.1149	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	148.9349	148.9349	2.8500e-003	2.7300e-003	149.8199
Total		**0.0151**	**0.1368**	**0.1149**	**8.2000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**148.9349**	**148.9349**	**2.8500e-003**	**2.7300e-003**	**149.8199**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	574087	77.7689	3.6500e-003	7.8000e-004	78.0928
Total		**77.7689**	**3.6500e-003**	**7.8000e-004**	**78.0928**

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	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Unmitigated	0.3386	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-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	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2986					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7300e-003	3.7300e-003	1.0000e-005	0.0000	3.9800e-003
Total	**0.3386**	**2.0000e-005**	**1.9100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.7300e-003**	**3.7300e-003**	**1.0000e-005**	**0.0000**	**3.9800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.8718	0.0394	3.3000e-003	6.8389
Unmitigated	4.8888	0.0394	3.3000e-003	6.8561

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.589073	4.8888	0.0394	3.3000e-003	6.8561
Total		**4.8888**	**0.0394**	**3.3000e-003**	**6.8561**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.24132 / 0.553139	4.8718	0.0394	3.3000e-003	6.8389
Total		**4.8718**	**0.0394**	**3.3000e-003**	**6.8389**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.2283	1.3728	0.0000	57.5470
Unmitigated	23.2283	1.3728	0.0000	57.5470

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	114.43	23.2283	1.3728	0.0000	57.5470
Total		**23.2283**	**1.3728**	**0.0000**	**57.5470**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 19-07915, Moxy Hotel

Vehicle Population Breakdown*	
715729	Gasoline vehicles
33258	Diesel vehicles
95.6%	Gasoline vehicle %
4.4%	Diesel vehicle %

VMT per Vehicle Type	
1053049	Project VMT (CalEEMod output)
1006290	Gasoline vehicle VMT
46759	Diesel vehicle VMT

Gasoline Vehicles	
95.6%	Gasoline vehicle %
0.2550	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.24	Gasoline vehicle tons per year NOX emissions
0.0229	Tons per year N2O emissions for gasoline vehicles**
0.0207	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
25.06	Diesel average miles per gallon*
0.06384	grams per mile N2O for diesel vehicles
2985.2	grams per year N2O for diesel vehicles
0.0029852	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0237	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
7.1	**CO2e emissions per year from N2O emissions from gasoline + diesel vehicles**

Sources
***Vehicle population source:** EMFAC2017 (v1.0.2) Emissions Inventory Region Type: County Region: SAN MATEO Calendar Year: 2030 Season: Annual Vehicle Classification: EMFAC2011 Categories ****Methodology source:** EMFAC2017 Volume III - Technical Documentation https://www.arb.ca.gov/msei/emfac2011-faq.htm *****GWP source:** Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contrbution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.

Electric Vehicle Calculations

VMT Assumptions			
Land Use	**Number of Rooms**	**Total Gasoline VMT/yr (from N2O Worksheet)**	**VMT per Room/yr**
Hotel Rooms	209	1,340,541	6414

Gasoline Vehicle Emissions Factors			
GHG	**Emission Factors (g/mi)**	**Emissions Factors (g CO2e/mi)**	**Notes**
CO2	218.15	218.15	EMFAC2017 (dividing CO2 TOTEX for LDA by VMT to obtain g CO2e per mile)
CH4	0.0065	0.2	CalEEMod (only RUNEX, not STREX because STREX is per trip, not per VMT)
N2O	0.018	0.005	N2O emissions worksheet based on CalEEMod run

PG&E Emissions Factors for EVs (Assuming 60% RPS by 2030)		
GHG	**Carbon Intensity Factors (lb/MWh) (CalEEMod)**	**Emissions Factors (g CO2e/MWh)**
CO2	298.65	135465
CH4	0.014	159
N2O	0.03	0.0041

EV Usage			
Level 2 Charger	6.6	kW	**Notes**
4 Hour Charge	26.4	kWh	
Miles per Charge	68	miles	Assuming 17 miles per hour of charge (low end)
MWh/mile	0.000388235		

Emissions Factors		
Vehicle Type	**Emissions Factor**	
Gasoline Vehicle	218	CO2e per mile
EV	135624	CO2e per MWh

Emissions Comparison	
Vehicle Type	**Emissions (MT CO2e/yr)**
Gasoline Vehicle	1.4
EV	0.3

Reduction per Charger
Emissions (MT CO2e/yr)
1.1

GHG Emission Reductions		
Number of EV Charging Stations	10	chargers
GHG Emission Reductions from Chargers	10.6	MT/yr

Sources
California Energy Commission. 2019. “Charging.” Plug-in Electric Vehicle Resource Center. https://www.driveclean.ca.gov/pev/Charging.php (accessed November 2019).
Converted CH4 and N2O to CO2e using USEPA GHG Equivalencies Calculator