
Appendix B

CalEEMod Air Quality Analysis

Oak Creek Park - Santa Cruz County, Summer

Oak Creek Park
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	7.96	1000sqft	0.18	7,955.00	0
Enclosed Parking with Elevator	122.00	space	1.10	48,800.00	0
Parking Lot	78.00	Space	0.70	31,200.00	0
Condo/Townhouse	52.00	Dwelling Unit	3.25	52,000.00	149
Strip Mall	12.72	1000sqft	0.29	12,716.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	1.8	Precipitation Freq (Days)	61
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	171	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted per PG&E 2019 CRSR

Land Use - Per project information

Construction Phase - Anticipated Construction schedule

Demolition - Demolition amounts (asphalt - 1,490 sf + concrete walk - 3,000 sf converted to 260 tons)

Grading - 500 cy of earth and 1,500 cy hardscape needed for import

Vehicle Trips - Anticipated trips

Road Dust -

Construction Off-road Equipment Mitigation - MBARD dust control measures

Energy Mitigation -

Waste Mitigation - AB939

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LandUseSquareFeet	7,960.00	7,955.00
tblLandUse	LandUseSquareFeet	12,720.00	12,716.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	171
tblTripsAndVMT	HaulingTripNumber	0.00	250.00
tblVehicleTrips	ST_TR	5.67	4.93
tblVehicleTrips	ST_TR	2.46	10.46
tblVehicleTrips	ST_TR	42.04	105.26
tblVehicleTrips	SU_TR	4.84	4.93
tblVehicleTrips	SU_TR	1.05	10.46
tblVehicleTrips	SU_TR	20.43	105.26
tblVehicleTrips	WD_TR	5.81	4.93
tblVehicleTrips	WD_TR	11.03	10.46
tblVehicleTrips	WD_TR	44.32	105.26

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	4.1568	42.4828	22.4177	0.0411	18.2141	2.1987	20.4128	9.9699	2.0228	11.9927	0.0000	4,088.7929	4,088.7929	1.1983	0.0000	4,113.2270
2021	48.8635	20.3488	19.9555	0.0393	0.7891	0.9724	1.7614	0.2126	0.9142	1.1269	0.0000	3,826.5338	3,826.5338	0.6652	0.0000	3,843.1650
Maximum	48.8635	42.4828	22.4177	0.0411	18.2141	2.1987	20.4128	9.9699	2.0228	11.9927	0.0000	4,088.7929	4,088.7929	1.1983	0.0000	4,113.2270

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	4.1568	42.4828	22.4177	0.0411	7.8635	2.1987	10.0621	4.2827	2.0228	6.3055	0.0000	4,088.7929	4,088.7929	1.1983	0.0000	4,113.2270
2021	48.8635	20.3488	19.9555	0.0393	0.7493	0.9724	1.7216	0.2028	0.9142	1.1171	0.0000	3,826.5338	3,826.5338	0.6652	0.0000	3,843.1650
Maximum	48.8635	42.4828	22.4177	0.0411	7.8635	2.1987	10.0621	4.2827	2.0228	6.3055	0.0000	4,088.7929	4,088.7929	1.1983	0.0000	4,113.2270

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	54.68	0.00	46.86	55.95	0.00	43.42	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	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625
Energy	0.0412	0.3553	0.1748	2.2500e-003		0.0285	0.0285		0.0285	0.0285		449.2062	449.2062	8.6100e-003	8.2400e-003	451.8756
Mobile	3.2233	9.4523	31.1132	0.0754	6.3713	0.0856	6.4569	1.7056	0.0802	1.7859		7,586.2954	7,586.2954	0.3712		7,595.5765
Total	5.2460	9.8574	35.6053	0.0779	6.3713	0.1379	6.5092	1.7056	0.1325	1.8381	0.0000	8,043.2745	8,043.2745	0.3874	8.2400e-003	8,055.4146

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	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625
Energy	0.0302	0.2604	0.1279	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.2307	329.2307	6.3100e-003	6.0400e-003	331.1872
Mobile	2.9848	8.0506	25.2848	0.0572	4.7361	0.0665	4.8026	1.2679	0.0623	1.3302		5,755.7892	5,755.7892	0.2950		5,763.1645
Total	4.9965	8.3607	29.7300	0.0591	4.7361	0.1111	4.8473	1.2679	0.1069	1.3748	0.0000	6,092.7929	6,092.7929	0.3089	6.0400e-003	6,102.3141

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.76	15.18	16.50	24.11	25.66	19.40	25.53	25.66	19.30	25.21	0.00	24.25	24.25	20.27	26.70	24.25

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Site Preparation	Site Preparation	7/29/2020	8/11/2020	5	10	
3	Grading	Grading	8/12/2020	9/8/2020	5	20	
4	Paving	Paving	9/9/2020	10/6/2020	5	20	
5	Building Construction	Building Construction	10/7/2020	8/24/2021	5	230	
6	Architectural Coating	Architectural Coating	8/25/2021	9/21/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.8

Residential Indoor: 105,300; Residential Outdoor: 35,100; Non-Residential Indoor: 31,007; Non-Residential Outdoor: 10,336; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20

Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	26.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	78.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					0.2749	0.0000	0.2749	0.0416	0.0000	0.0416			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.2749	1.6587	1.9336	0.0416	1.5419	1.5835		3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.0105	0.4440	0.0958	1.0600e-003	0.0225	1.8200e-003	0.0243	6.1500e-003	1.7500e-003	7.9000e-003		113.3420	113.3420	4.4700e-003		113.4538
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0669	0.0546	0.5688	1.2700e-003	0.1232	1.0300e-003	0.1243	0.0327	9.5000e-004	0.0336		126.4806	126.4806	5.3400e-003		126.6140
Total	0.0774	0.4986	0.6645	2.3300e-003	0.1457	2.8500e-003	0.1486	0.0388	2.7000e-003	0.0415		239.8226	239.8226	9.8100e-003		240.0679

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1175	0.0000	0.1175	0.0178	0.0000	0.0178			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.1175	1.6587	1.7762	0.0178	1.5419	1.5597	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.0105	0.4440	0.0958	1.0600e-003	0.0215	1.8200e-003	0.0233	5.9000e-003	1.7500e-003	7.6500e-003		113.3420	113.3420	4.4700e-003		113.4538
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0669	0.0546	0.5688	1.2700e-003	0.1168	1.0300e-003	0.1178	0.0311	9.5000e-004	0.0321		126.4806	126.4806	5.3400e-003		126.6140
Total	0.0774	0.4986	0.6645	2.3300e-003	0.1383	2.8500e-003	0.1411	0.0370	2.7000e-003	0.0397		239.8226	239.8226	9.8100e-003		240.0679

3.3 Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0803	0.0655	0.6825	1.5300e-003	0.1479	1.2400e-003	0.1491	0.0392	1.1400e-003	0.0404		151.7767	151.7767	6.4100e-003		151.9369
Total	0.0803	0.0655	0.6825	1.5300e-003	0.1479	1.2400e-003	0.1491	0.0392	1.1400e-003	0.0404		151.7767	151.7767	6.4100e-003		151.9369

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.7233	2.1974	9.9207	4.2454	2.0216	6.2670	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0000	0.0000
Worker	0.0803	0.0655	0.6825	1.5300e-003	0.1402	1.2400e-003	0.1414	0.0373	1.1400e-003	0.0385		151.7767	151.7767	6.4100e-003		151.9369
Total	0.0803	0.0655	0.6825	1.5300e-003	0.1402	1.2400e-003	0.1414	0.0373	1.1400e-003	0.0385		151.7767	151.7767	6.4100e-003		151.9369

3.4 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.1005	4.2694	0.9207	0.0102	0.2165	0.0176	0.2340	0.0592	0.0168	0.0760		1,089.8272	1,089.8272	0.0430		1,090.9023
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0669	0.0546	0.5688	1.2700e-003	0.1232	1.0300e-003	0.1243	0.0327	9.5000e-004	0.0336		126.4806	126.4806	5.3400e-003		126.6140
Total	0.1674	4.3239	1.4895	0.0115	0.3397	0.0186	0.3583	0.0918	0.0177	0.1096		1,216.3078	1,216.3078	0.0483		1,217.5163

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8011	1.2734	4.0746	1.4396	1.1716	2.6112	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.1005	4.2694	0.9207	0.0102	0.2066	0.0176	0.2241	0.0567	0.0168	0.0735		1,089.8272	1,089.8272	0.0430		1,090.9023
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0669	0.0546	0.5688	1.2700e-003	0.1168	1.0300e-003	0.1178	0.0311	9.5000e-004	0.0321		126.4806	126.4806	5.3400e-003		126.6140
Total	0.1674	4.3239	1.4895	0.0115	0.3234	0.0186	0.3419	0.0878	0.0177	0.1056		1,216.3078	1,216.3078	0.0483		1,217.5163

3.5 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4483	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0669	0.0546	0.5688	1.2700e-003	0.1232	1.0300e-003	0.1243	0.0327	9.5000e-004	0.0336		126.4806	126.4806	5.3400e-003		126.6140
Total	0.0669	0.0546	0.5688	1.2700e-003	0.1232	1.0300e-003	0.1243	0.0327	9.5000e-004	0.0336		126.4806	126.4806	5.3400e-003		126.6140

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Paving	0.0917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4483	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0669	0.0546	0.5688	1.2700e-003	0.1168	1.0300e-003	0.1178	0.0311	9.5000e-004	0.0321		126.4806	126.4806	5.3400e-003		126.6140
Total	0.0669	0.0546	0.5688	1.2700e-003	0.1168	1.0300e-003	0.1178	0.0311	9.5000e-004	0.0321		126.4806	126.4806	5.3400e-003		126.6140

3.6 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.0955	2.9391	0.7748	6.0200e-003	0.1483	0.0180	0.1663	0.0427	0.0172	0.0599		637.7959	637.7959	0.0256		638.4348
Worker	0.3479	0.2837	2.9576	6.6100e-003	0.6408	5.3700e-003	0.6461	0.1700	4.9600e-003	0.1749		657.6990	657.6990	0.0278		658.3930
Total	0.4434	3.2228	3.7324	0.0126	0.7891	0.0234	0.8124	0.2126	0.0222	0.2348		1,295.4950	1,295.4950	0.0533		1,296.8278

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000
Vendor	0.0955	2.9391	0.7748	6.0200e-003	0.1419	0.0180	0.1599	0.0411	0.0172	0.0583	637.7959	637.7959	0.0256	638.4348	
Worker	0.3479	0.2837	2.9576	6.6100e-003	0.6073	5.3700e-003	0.6127	0.1618	4.9600e-003	0.1667	657.6990	657.6990	0.0278	658.3930	
Total	0.4434	3.2228	3.7324	0.0126	0.7493	0.0234	0.7727	0.2028	0.0222	0.2250	1,295.4950	1,295.4950	0.0533	1,296.8278	

3.6 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	2,553.3639	2,553.3639	0.6160			2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	2,553.3639	2,553.3639	0.6160			2,568.7643

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	0.0000	0.0000
Vendor	0.0759	2.6627	0.6779	5.9800e-003	0.1483	8.5000e-003	0.1568	0.0427	8.1300e-003	0.0508	633.0129	633.0129	0.0242			633.6171

Worker	0.3237	0.2540	2.7024	6.4300e-003	0.6408	5.2300e-003	0.6460	0.1700	4.8300e-003	0.1748		640.1570	640.1570	0.0251		640.7836
Total	0.3995	2.9167	3.3803	0.0124	0.7891	0.0137	0.8028	0.2126	0.0130	0.2256		1,273.1699	1,273.1699	0.0492		1,274.4008

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0759	2.6627	0.6779	5.9800e-003	0.1419	8.5000e-003	0.1504	0.0411	8.1300e-003	0.0492		633.0129	633.0129	0.0242		633.6171
Worker	0.3237	0.2540	2.7024	6.4300e-003	0.6073	5.2300e-003	0.6126	0.1618	4.8300e-003	0.1666		640.1570	640.1570	0.0251		640.7836
Total	0.3995	2.9167	3.3803	0.0124	0.7493	0.0137	0.7630	0.2028	0.0130	0.2158		1,273.1699	1,273.1699	0.0492		1,274.4008

3.7 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	48.5782					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	48.7971	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	0.0664	0.0521	0.5543	1.3200e-003	0.1314	1.0700e-003	0.1325	0.0349	9.9000e-004	0.0359		131.3143	131.3143	5.1400e-003		131.4428
Total	0.0664	0.0521	0.5543	1.3200e-003	0.1314	1.0700e-003	0.1325	0.0349	9.9000e-004	0.0359		131.3143	131.3143	5.1400e-003		131.4428

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
Archit. Coating	48.5782				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	48.7971	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	0.0664	0.0521	0.5543	1.3200e-003	0.1246	1.0700e-003	0.1257	0.0332	9.9000e-004	0.0342		131.3143	131.3143	5.1400e-003		131.4428
Total	0.0664	0.0521	0.5543	1.3200e-003	0.1246	1.0700e-003	0.1257	0.0332	9.9000e-004	0.0342		131.3143	131.3143	5.1400e-003		131.4428

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9848	8.0506	25.2848	0.0572	4.7361	0.0665	4.8026	1.2679	0.0623	1.3302		5,755.7892	5,755.7892	0.2950		5,763.1645
Unmitigated	3.2233	9.4523	31.1132	0.0754	6.3713	0.0856	6.4569	1.7056	0.0802	1.7859		7,586.2954	7,586.2954	0.3712		7,595.5765

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	256.36	256.36	256.36	738,545	549,002
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	83.26	83.26	83.26	198,975	147,909
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,338.91	1,338.91	1,338.91	2,061,961	1,532,772
Total	1,678.53	1,678.53	1,678.53	2,999,481	2,229,683

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Condo/Townhouse	10.80	7.30	7.50	44.00	18.80	37.20	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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Condo/Townhouse	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Enclosed Parking with Elevator	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
General Office Building	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Parking Lot	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Strip Mall	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0302	0.2604	0.1279	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.2307	329.2307	6.3100e-003	6.0400e-003	331.1872
NaturalGas Unmitigated	0.0412	0.3553	0.1748	2.2500e-003		0.0285	0.0285		0.0285	0.0285		449.2062	449.2062	8.6100e-003	8.2400e-003	451.8756

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
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Land Use	kBTU/yr	lb/day									lb/day						
Condo/Townhouse	3236.71	0.0349	0.2983	0.1269	1.9000e-003		0.0241	0.0241		0.0241	0.0241		380.7892	380.7892	7.3000e-003	6.9800e-003	383.0520
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	421.288	4.5400e-003	0.0413	0.0347	2.5000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003		49.5633	49.5633	9.5000e-004	9.1000e-004	49.8578
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	160.256	1.7300e-003	0.0157	0.0132	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003		18.8537	18.8537	3.6000e-004	3.5000e-004	18.9657
Total		0.0412	0.3553	0.1748	2.2400e-003		0.0285	0.0285		0.0285	0.0285		449.2062	449.2062	8.6100e-003	8.2400e-003	451.8756

Mitigated

	Natural Gas 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						
Condo/Townhouse	2.37746	0.0256	0.2191	0.0932	1.4000e-003		0.0177	0.0177		0.0177	0.0177		279.7012	279.7012	5.3600e-003	5.1300e-003	281.3633
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.301505	3.2500e-003	0.0296	0.0248	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003		35.4712	35.4712	6.8000e-004	6.5000e-004	35.6820
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.119496	1.2900e-003	0.0117	9.8400e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0583	14.0583	2.7000e-004	2.6000e-004	14.1418
Total		0.0302	0.2604	0.1279	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.2307	329.2307	6.3100e-003	6.0400e-003	331.1871

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	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625
Unmitigated	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625

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	0.2662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5835					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1318	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238		7.7730	7.7730	7.5800e-003		7.9625
Total	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625

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	0.2662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5835					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1318	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238		7.7730	7.7730	7.5800e-003		7.9625
Total	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Oak Creek Park - Santa Cruz County, Winter

Oak Creek Park
Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	7.96	1000sqft	0.18	7,955.00	0
Enclosed Parking with Elevator	122.00	space	1.10	48,800.00	0
Parking Lot	78.00	Space	0.70	31,200.00	0
Condo/Townhouse	52.00	Dwelling Unit	3.25	52,000.00	149
Strip Mall	12.72	1000sqft	0.29	12,716.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	1.8	Precipitation Freq (Days)	61
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	171	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted per PG&E 2019 CRSR

Land Use - Per project information

Construction Phase - Anticipated Construction schedule

Demolition - Demolition amounts (asphalt - 1,490 sf + concrete walk - 3,000 sf converted to 260 tons)

Grading - 500 cy of earth and 1,500 cy hardscape needed for import

Vehicle Trips - Anticipated trips

Road Dust -

Construction Off-road Equipment Mitigation - MBARD dust control measures

Energy Mitigation -

Waste Mitigation - AB939

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LandUseSquareFeet	7,960.00	7,955.00
tblLandUse	LandUseSquareFeet	12,720.00	12,716.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	171
tblTripsAndVMT	HaulingTripNumber	0.00	250.00
tblVehicleTrips	ST_TR	5.67	4.93
tblVehicleTrips	ST_TR	2.46	10.46
tblVehicleTrips	ST_TR	42.04	105.26
tblVehicleTrips	SU_TR	4.84	4.93
tblVehicleTrips	SU_TR	1.05	10.46
tblVehicleTrips	SU_TR	20.43	105.26
tblVehicleTrips	WD_TR	5.81	4.93
tblVehicleTrips	WD_TR	11.03	10.46
tblVehicleTrips	WD_TR	44.32	105.26

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	4.1665	42.4988	22.4323	0.0411	18.2141	2.1987	20.4128	9.9699	2.0228	11.9927	0.0000	4,068.4522	4,068.4522	1.1981	0.0000	4,092.9214
2021	48.8715	20.4333	20.0829	0.0389	0.7891	0.9728	1.7618	0.2126	0.9146	1.1272	0.0000	3,783.0173	3,783.0173	0.6662	0.0000	3,799.6724
Maximum	48.8715	42.4988	22.4323	0.0411	18.2141	2.1987	20.4128	9.9699	2.0228	11.9927	0.0000	4,068.4522	4,068.4522	1.1981	0.0000	4,092.9214

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	4.1665	42.4988	22.4323	0.0411	7.8635	2.1987	10.0621	4.2827	2.0228	6.3055	0.0000	4,068.4522	4,068.4522	1.1981	0.0000	4,092.9214
2021	48.8715	20.4333	20.0829	0.0389	0.7493	0.9728	1.7220	0.2028	0.9146	1.1175	0.0000	3,783.0173	3,783.0173	0.6662	0.0000	3,799.6724
Maximum	48.8715	42.4988	22.4323	0.0411	7.8635	2.1987	10.0621	4.2827	2.0228	6.3055	0.0000	4,068.4522	4,068.4522	1.1981	0.0000	4,092.9214

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	54.68	0.00	46.86	55.95	0.00	43.42	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	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625
Energy	0.0412	0.3553	0.1748	2.2500e-003		0.0285	0.0285		0.0285	0.0285		449.2062	449.2062	8.6100e-003	8.2400e-003	451.8756
Mobile	3.0141	10.2189	34.0237	0.0725	6.3713	0.0864	6.4577	1.7056	0.0810	1.7866		7,284.3062	7,284.3062	0.3824		7,293.8670
Total	5.0368	10.6239	38.5157	0.0750	6.3713	0.1387	6.5100	1.7056	0.1332	1.8389	0.0000	7,741.2854	7,741.2854	0.3986	8.2400e-003	7,753.7051

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	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625
Energy	0.0302	0.2604	0.1279	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.2307	329.2307	6.3100e-003	6.0400e-003	331.1872
Mobile	2.7758	8.6461	28.4517	0.0550	4.7361	0.0673	4.8034	1.2679	0.0630	1.3309		5,524.6135	5,524.6135	0.3087		5,532.3297
Total	4.7874	8.9562	32.8968	0.0569	4.7361	0.1119	4.8481	1.2679	0.1077	1.3756	0.0000	5,861.6172	5,861.6172	0.3225	6.0400e-003	5,871.4794

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.95	15.70	14.59	24.11	25.66	19.29	25.53	25.66	19.20	25.20	0.00	24.28	24.28	19.09	26.70	24.28

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Site Preparation	Site Preparation	7/29/2020	8/11/2020	5	10	
3	Grading	Grading	8/12/2020	9/8/2020	5	20	
4	Paving	Paving	9/9/2020	10/6/2020	5	20	
5	Building Construction	Building Construction	10/7/2020	8/24/2021	5	230	
6	Architectural Coating	Architectural Coating	8/25/2021	9/21/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.8

Residential Indoor: 105,300; Residential Outdoor: 35,100; Non-Residential Indoor: 31,007; Non-Residential Outdoor: 10,336; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20

Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	26.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	78.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					0.2749	0.0000	0.2749	0.0416	0.0000	0.0416			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.2749	1.6587	1.9336	0.0416	1.5419	1.5835		3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.0107	0.4538	0.1010	1.0500e-003	0.0225	1.8700e-003	0.0244	6.1500e-003	1.7900e-003	7.9400e-003		111.8474	111.8474	4.6300e-003		111.9632
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0750	0.0679	0.5781	1.2100e-003	0.1232	1.0300e-003	0.1243	0.0327	9.5000e-004	0.0336		120.5115	120.5115	5.2100e-003		120.6417
Total	0.0857	0.5217	0.6791	2.2600e-003	0.1457	2.9000e-003	0.1486	0.0388	2.7400e-003	0.0416		232.3589	232.3589	9.8400e-003		232.6049

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1175	0.0000	0.1175	0.0178	0.0000	0.0178			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.1175	1.6587	1.7762	0.0178	1.5419	1.5597	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.0107	0.4538	0.1010	1.0500e-003	0.0215	1.8700e-003	0.0234	5.9000e-003	1.7900e-003	7.6900e-003		111.8474	111.8474	4.6300e-003		111.9632
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0750	0.0679	0.5781	1.2100e-003	0.1168	1.0300e-003	0.1178	0.0311	9.5000e-004	0.0321		120.5115	120.5115	5.2100e-003		120.6417
Total	0.0857	0.5217	0.6791	2.2600e-003	0.1383	2.9000e-003	0.1412	0.0370	2.7400e-003	0.0398		232.3589	232.3589	9.8400e-003		232.6049

3.3 Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0900	0.0815	0.6937	1.4500e-003	0.1479	1.2400e-003	0.1491	0.0392	1.1400e-003	0.0404		144.6138	144.6138	6.2500e-003		144.7700
Total	0.0900	0.0815	0.6937	1.4500e-003	0.1479	1.2400e-003	0.1491	0.0392	1.1400e-003	0.0404		144.6138	144.6138	6.2500e-003		144.7700

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.7233	2.1974	9.9207	4.2454	2.0216	6.2670	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0900	0.0815	0.6937	1.4500e-003	0.1402	1.2400e-003	0.1414	0.0373	1.1400e-003	0.0385		144.6138	144.6138	6.2500e-003		144.7700
Total	0.0900	0.0815	0.6937	1.4500e-003	0.1402	1.2400e-003	0.1414	0.0373	1.1400e-003	0.0385		144.6138	144.6138	6.2500e-003		144.7700

3.4 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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.1033	4.3634	0.9707	0.0101	0.2165	0.0180	0.2345	0.0592	0.0172	0.0764		1,075.4556	1,075.4556	0.0445		1,076.5691
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0750	0.0679	0.5781	1.2100e-003	0.1232	1.0300e-003	0.1243	0.0327	9.5000e-004	0.0336		120.5115	120.5115	5.2100e-003		120.6417
Total	0.1783	4.4313	1.5488	0.0113	0.3397	0.0190	0.3587	0.0918	0.0182	0.1100		1,195.9671	1,195.9671	0.0498		1,197.2108

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8011	1.2734	4.0746	1.4396	1.1716	2.6112	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.1033	4.3634	0.9707	0.0101	0.2066	0.0180	0.2246	0.0567	0.0172	0.0739		1,075.4556	1,075.4556	0.0445		1,076.5691
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0750	0.0679	0.5781	1.2100e-003	0.1168	1.0300e-003	0.1178	0.0311	9.5000e-004	0.0321		120.5115	120.5115	5.2100e-003		120.6417
Total	0.1783	4.4313	1.5488	0.0113	0.3234	0.0190	0.3424	0.0878	0.0182	0.1060		1,195.9671	1,195.9671	0.0498		1,197.2108

3.5 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4483	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0750	0.0679	0.5781	1.2100e-003	0.1232	1.0300e-003	0.1243	0.0327	9.5000e-004	0.0336		120.5115	120.5115	5.2100e-003		120.6417
Total	0.0750	0.0679	0.5781	1.2100e-003	0.1232	1.0300e-003	0.1243	0.0327	9.5000e-004	0.0336		120.5115	120.5115	5.2100e-003		120.6417

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Paving	0.0917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4483	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0750	0.0679	0.5781	1.2100e-003	0.1168	1.0300e-003	0.1178	0.0311	9.5000e-004	0.0321		120.5115	120.5115	5.2100e-003		120.6417
Total	0.0750	0.0679	0.5781	1.2100e-003	0.1168	1.0300e-003	0.1178	0.0311	9.5000e-004	0.0321		120.5115	120.5115	5.2100e-003		120.6417

3.6 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.1008	2.9711	0.8750	5.9000e-003	0.1483	0.0185	0.1668	0.0427	0.0177	0.0603		624.5711	624.5711	0.0273		625.2522
Worker	0.3899	0.3531	3.0061	6.3000e-003	0.6408	5.3700e-003	0.6461	0.1700	4.9600e-003	0.1749		626.6599	626.6599	0.0271		627.3366
Total	0.4907	3.3242	3.8811	0.0122	0.7891	0.0238	0.8129	0.2126	0.0226	0.2352		1,251.2309	1,251.2309	0.0543		1,252.5889

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000
Vendor	0.1008	2.9711	0.8750	5.9000e-003	0.1419	0.0185	0.1604	0.0411	0.0177	0.0588	624.5711	624.5711	0.0273	625.2522	
Worker	0.3899	0.3531	3.0061	6.3000e-003	0.6073	5.3700e-003	0.6127	0.1618	4.9600e-003	0.1667	626.6599	626.6599	0.0271	627.3366	
Total	0.4907	3.3242	3.8811	0.0122	0.7493	0.0238	0.7731	0.2028	0.0226	0.2255	1,251.2309	1,251.2309	0.0543	1,252.5889	

3.6 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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	2,553.3639	2,553.3639	0.6160			2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	2,553.3639	2,553.3639	0.6160			2,568.7643

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	0.0000	0.0000
Vendor	0.0807	2.6851	0.7700	5.8500e-003	0.1483	8.9100e-003	0.1572	0.0427	8.5200e-003	0.0512	619.7124	619.7124	0.0258			620.3581

Worker	0.3628	0.3161	2.7377	6.1300e-003	0.6408	5.2300e-003	0.6460	0.1700	4.8300e-003	0.1748		609.9410	609.9410	0.0244		610.5500
Total	0.4436	3.0012	3.5077	0.0120	0.7891	0.0141	0.8032	0.2126	0.0134	0.2260		1,229.6534	1,229.6534	0.0502		1,230.9081

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0807	2.6851	0.7700	5.8500e-003	0.1419	8.9100e-003	0.1508	0.0411	8.5200e-003	0.0496		619.7124	619.7124	0.0258		620.3581
Worker	0.3628	0.3161	2.7377	6.1300e-003	0.6073	5.2300e-003	0.6126	0.1618	4.8300e-003	0.1666		609.9410	609.9410	0.0244		610.5500
Total	0.4436	3.0012	3.5077	0.0120	0.7493	0.0141	0.7634	0.2028	0.0134	0.2162		1,229.6534	1,229.6534	0.0502		1,230.9081

3.7 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	48.5782					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	48.7971	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	0.0744	0.0648	0.5616	1.2600e-003	0.1314	1.0700e-003	0.1325	0.0349	9.9000e-004	0.0359		125.1161	125.1161	5.0000e-003		125.2410
Total	0.0744	0.0648	0.5616	1.2600e-003	0.1314	1.0700e-003	0.1325	0.0349	9.9000e-004	0.0359		125.1161	125.1161	5.0000e-003		125.2410

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
Archit. Coating	48.5782				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	48.7971	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	0.0744	0.0648	0.5616	1.2600e-003	0.1246	1.0700e-003	0.1257	0.0332	9.9000e-004	0.0342		125.1161	125.1161	5.0000e-003		125.2410
Total	0.0744	0.0648	0.5616	1.2600e-003	0.1246	1.0700e-003	0.1257	0.0332	9.9000e-004	0.0342		125.1161	125.1161	5.0000e-003		125.2410

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7758	8.6461	28.4517	0.0550	4.7361	0.0673	4.8034	1.2679	0.0630	1.3309		5,524.6135	5,524.6135	0.3087		5,532.3297
Unmitigated	3.0141	10.2189	34.0237	0.0725	6.3713	0.0864	6.4577	1.7056	0.0810	1.7866		7,284.3062	7,284.3062	0.3824		7,293.8670

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	256.36	256.36	256.36	738,545	549,002
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	83.26	83.26	83.26	198,975	147,909
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,338.91	1,338.91	1,338.91	2,061,961	1,532,772
Total	1,678.53	1,678.53	1,678.53	2,999,481	2,229,683

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Condo/Townhouse	10.80	7.30	7.50	44.00	18.80	37.20	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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Condo/Townhouse	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Enclosed Parking with Elevator	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
General Office Building	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Parking Lot	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Strip Mall	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0302	0.2604	0.1279	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.2307	329.2307	6.3100e-003	6.0400e-003	331.1872
NaturalGas Unmitigated	0.0412	0.3553	0.1748	2.2500e-003		0.0285	0.0285		0.0285	0.0285		449.2062	449.2062	8.6100e-003	8.2400e-003	451.8756

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
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Land Use	kBTU/yr	lb/day									lb/day						
Condo/Townhouse	3236.71	0.0349	0.2983	0.1269	1.9000e-003		0.0241	0.0241		0.0241	0.0241		380.7892	380.7892	7.3000e-003	6.9800e-003	383.0520
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	421.288	4.5400e-003	0.0413	0.0347	2.5000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003		49.5633	49.5633	9.5000e-004	9.1000e-004	49.8578
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	160.256	1.7300e-003	0.0157	0.0132	9.0000e-005		1.1900e-003	1.1900e-003		1.1900e-003	1.1900e-003		18.8537	18.8537	3.6000e-004	3.5000e-004	18.9657
Total		0.0412	0.3553	0.1748	2.2400e-003		0.0285	0.0285		0.0285	0.0285		449.2062	449.2062	8.6100e-003	8.2400e-003	451.8756

Mitigated

	Natural Gas 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						
Condo/Townhouse	2.37746	0.0256	0.2191	0.0932	1.4000e-003		0.0177	0.0177		0.0177	0.0177		279.7012	279.7012	5.3600e-003	5.1300e-003	281.3633
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.301505	3.2500e-003	0.0296	0.0248	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003		35.4712	35.4712	6.8000e-004	6.5000e-004	35.6820
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.119496	1.2900e-003	0.0117	9.8400e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.0583	14.0583	2.7000e-004	2.6000e-004	14.1418
Total		0.0302	0.2604	0.1279	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.2307	329.2307	6.3100e-003	6.0400e-003	331.1871

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	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625
Unmitigated	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625

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	0.2662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5835					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1318	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238		7.7730	7.7730	7.5800e-003		7.9625
Total	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625

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	0.2662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5835					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1318	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238		7.7730	7.7730	7.5800e-003		7.9625
Total	1.9815	0.0497	4.3173	2.3000e-004		0.0238	0.0238		0.0238	0.0238	0.0000	7.7730	7.7730	7.5800e-003	0.0000	7.9625

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Oak Creek Park - Santa Cruz County, Annual

Oak Creek Park
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	7.96	1000sqft	0.18	7,955.00	0
Enclosed Parking with Elevator	122.00	space	1.10	48,800.00	0
Parking Lot	78.00	Space	0.70	31,200.00	0
Condo/Townhouse	52.00	Dwelling Unit	3.25	52,000.00	149
Strip Mall	12.72	1000sqft	0.29	12,716.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	1.8	Precipitation Freq (Days)	61
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	171	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted per PG&E 2019 CRSR

Land Use - Per project information

Construction Phase - Anticipated Construction schedule

Demolition - Demolition amounts (asphalt - 1,490 sf + concrete walk - 3,000 sf converted to 260 tons)

Grading - 500 cy of earth and 1,500 cy hardscape needed for import

Vehicle Trips - Anticipated trips

Road Dust -

Construction Off-road Equipment Mitigation - MBARD dust control measures

Energy Mitigation -

Waste Mitigation - AB939

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LandUseSquareFeet	7,960.00	7,955.00
tblLandUse	LandUseSquareFeet	12,720.00	12,716.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	171
tblTripsAndVMT	HaulingTripNumber	0.00	250.00
tblVehicleTrips	ST_TR	5.67	4.93
tblVehicleTrips	ST_TR	2.46	10.46
tblVehicleTrips	ST_TR	42.04	105.26
tblVehicleTrips	SU_TR	4.84	4.93
tblVehicleTrips	SU_TR	1.05	10.46
tblVehicleTrips	SU_TR	20.43	105.26
tblVehicleTrips	WD_TR	5.81	4.93
tblVehicleTrips	WD_TR	11.03	10.46
tblVehicleTrips	WD_TR	44.32	105.26

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	0.1755	1.6961	1.2993	2.4700e-003	0.1888	0.0834	0.2722	0.0919	0.0776	0.1695	0.0000	218.8120	218.8120	0.0495	0.0000	220.0501
2021	0.6824	1.7308	1.6965	3.3200e-003	0.0652	0.0826	0.1479	0.0176	0.0778	0.0954	0.0000	292.5950	292.5950	0.0509	0.0000	293.8675
Maximum	0.6824	1.7308	1.6965	3.3200e-003	0.1888	0.0834	0.2722	0.0919	0.0778	0.1695	0.0000	292.5950	292.5950	0.0509	0.0000	293.8675

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	0.1755	1.6961	1.2993	2.4700e-003	0.0965	0.0834	0.1799	0.0436	0.0776	0.1212	0.0000	218.8118	218.8118	0.0495	0.0000	220.0499
2021	0.6824	1.7308	1.6965	3.3200e-003	0.0620	0.0826	0.1446	0.0168	0.0778	0.0946	0.0000	292.5947	292.5947	0.0509	0.0000	293.8673
Maximum	0.6824	1.7308	1.6965	3.3200e-003	0.0965	0.0834	0.1799	0.0436	0.0778	0.1212	0.0000	292.5947	292.5947	0.0509	0.0000	293.8673

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.63	0.00	22.75	44.85	0.00	18.54	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	7-1-2020	9-30-2020	1.0600	1.0600
2	10-1-2020	12-31-2020	0.8051	0.8051
3	1-1-2021	3-31-2021	0.7321	0.7321
4	4-1-2021	6-30-2021	0.7361	0.7361

5	7-1-2021	9-30-2021	0.9493	0.9493
		Highest	1.0600	1.0600

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	0.3540	6.2200e-003	0.5397	3.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	0.8815	0.8815	8.6000e-004	0.0000	0.9029
Energy	7.5100e-003	0.0648	0.0319	4.1000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	135.6053	135.6053	0.0118	3.5100e-003	136.9471
Mobile	0.5455	1.8069	5.7857	0.0132	1.1182	0.0156	1.1338	0.3003	0.0146	0.3149	0.0000	1,204.5270	1,204.5270	0.0614	0.0000	1,206.0624
Waste						0.0000	0.0000		0.0000	0.0000	9.0696	0.0000	9.0696	0.5360	0.0000	22.4696
Water						0.0000	0.0000		0.0000	0.0000	1.8226	3.3832	5.2058	0.1878	4.5400e-003	11.2527
Total	0.9070	1.8780	6.3573	0.0136	1.1182	0.0238	1.1420	0.3003	0.0228	0.3231	10.8923	1,344.3969	1,355.2892	0.7979	8.0500e-003	1,377.6348

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	0.3540	6.2200e-003	0.5397	3.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	0.8815	0.8815	8.6000e-004	0.0000	0.9029
Energy	5.5100e-003	0.0475	0.0233	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	109.6214	109.6214	0.0104	2.9300e-003	110.7553
Mobile	0.5026	1.5328	4.7934	0.0100	0.8312	0.0121	0.8433	0.2232	0.0114	0.2346	0.0000	914.1356	914.1356	0.0493	0.0000	915.3670

Waste						0.0000	0.0000		0.0000	0.0000	4.5348	0.0000	4.5348	0.2680	0.0000	11.2348
Water						0.0000	0.0000		0.0000	0.0000	1.8226	3.3832	5.2058	0.1878	4.5400e-003	11.2527
Total	0.8621	1.5865	5.3564	0.0104	0.8312	0.0189	0.8501	0.2232	0.0182	0.2414	6.3574	1,028.0217	1,034.3791	0.5163	7.4700e-003	1,049.5128

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.95	15.52	15.74	24.12	25.66	20.43	25.56	25.66	20.39	25.29	41.63	23.53	23.68	35.29	7.20	23.82

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Site Preparation	Site Preparation	7/29/2020	8/11/2020	5	10	
3	Grading	Grading	8/12/2020	9/8/2020	5	20	
4	Paving	Paving	9/9/2020	10/6/2020	5	20	
5	Building Construction	Building Construction	10/7/2020	8/24/2021	5	230	
6	Architectural Coating	Architectural Coating	8/25/2021	9/21/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.8

Residential Indoor: 105,300; Residential Outdoor: 35,100; Non-Residential Indoor: 31,007; Non-Residential Outdoor: 10,336; Striped

OffRoad Equipment

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

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	26.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	78.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					2.7500e-003	0.0000	2.7500e-003	4.2000e-004	0.0000	4.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	0.0331	0.3320	0.2175	3.9000e-004	2.7500e-003	0.0166	0.0193	4.2000e-004	0.0154	0.0158	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	4.5300e-003	9.8000e-004	1.0000e-005	2.2000e-004	2.0000e-005	2.4000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	1.0225	1.0225	4.0000e-005	0.0000	1.0236
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	6.2000e-004	5.5300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0942	1.0942	5.0000e-005	0.0000	1.0954
Total	7.9000e-004	5.1500e-003	6.5100e-003	2.0000e-005	1.4100e-003	3.0000e-005	1.4400e-003	3.8000e-004	3.0000e-005	4.1000e-004	0.0000	2.1167	2.1167	9.0000e-005	0.0000	2.1189

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					1.1800e-003	0.0000	1.1800e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	0.0331	0.3320	0.2175	3.9000e-004	1.1800e-003	0.0166	0.0178	1.8000e-004	0.0154	0.0156	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	4.5300e-003	9.8000e-004	1.0000e-005	2.1000e-004	2.0000e-005	2.3000e-004	6.0000e-005	2.0000e-005	7.0000e-005	0.0000	1.0225	1.0225	4.0000e-005	0.0000	1.0236
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	6.2000e-004	5.5300e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.0942	1.0942	5.0000e-005	0.0000	1.0954
Total	7.9000e-004	5.1500e-003	6.5100e-003	2.0000e-005	1.3400e-003	3.0000e-005	1.3700e-003	3.6000e-004	3.0000e-005	3.8000e-004	0.0000	2.1167	2.1167	9.0000e-005	0.0000	2.1189

3.3 Site Preparation - 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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.7000e-004	3.3200e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6565	0.6565	3.0000e-005	0.0000	0.6572
Total	4.1000e-004	3.7000e-004	3.3200e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6565	0.6565	3.0000e-005	0.0000	0.6572

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					0.0386	0.0000	0.0386	0.0212	0.0000	0.0212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

Total	0.0204	0.2121	0.1076	1.9000e-004	0.0386	0.0110	0.0496	0.0212	0.0101	0.0313	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.7000e-004	3.3200e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.8000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6565	0.6565	3.0000e-005	0.0000	0.6572
Total	4.1000e-004	3.7000e-004	3.3200e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.8000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6565	0.6565	3.0000e-005	0.0000	0.6572

3.4 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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694
Total	0.0243	0.2639	0.1605	3.0000e-004	0.0655	0.0127	0.0783	0.0337	0.0117	0.0454	0.0000	26.0588	26.0588	8.4300e-003	0.0000	26.2694

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0200e-003	0.0436	9.4000e-003	1.0000e-004	2.1000e-003	1.8000e-004	2.2700e-003	5.7000e-004	1.7000e-004	7.4000e-004	0.0000	9.8320	9.8320	4.0000e-004	0.0000	9.8419
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	6.2000e-004	5.5300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0942	1.0942	5.0000e-005	0.0000	1.0954
Total	1.7000e-003	0.0442	0.0149	1.1000e-004	3.2900e-003	1.9000e-004	3.4700e-003	8.9000e-004	1.8000e-004	1.0700e-003	0.0000	10.9262	10.9262	4.5000e-004	0.0000	10.9372

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0280	0.0000	0.0280	0.0144	0.0000	0.0144	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0243	0.2639	0.1605	3.0000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694
Total	0.0243	0.2639	0.1605	3.0000e-004	0.0280	0.0127	0.0407	0.0144	0.0117	0.0261	0.0000	26.0587	26.0587	8.4300e-003	0.0000	26.2694

Mitigated Construction Off-Site

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

Hauling	1.0200e-003	0.0436	9.4000e-003	1.0000e-004	2.0000e-003	1.8000e-004	2.1800e-003	5.5000e-004	1.7000e-004	7.2000e-004	0.0000	9.8320	9.8320	4.0000e-004	0.0000	9.8419
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	6.2000e-004	5.5300e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.0942	1.0942	5.0000e-005	0.0000	1.0954
Total	1.7000e-003	0.0442	0.0149	1.1000e-004	3.1300e-003	1.9000e-004	3.3200e-003	8.5000e-004	1.8000e-004	1.0300e-003	0.0000	10.9262	10.9262	4.5000e-004	0.0000	10.9372

3.5 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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	9.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902

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	6.8000e-004	6.2000e-004	5.5300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0942	1.0942	5.0000e-005	0.0000	1.0954

Total	6.8000e-004	6.2000e-004	5.5300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0942	1.0942	5.0000e-005	0.0000	1.0954
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	9.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901

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	6.8000e-004	6.2000e-004	5.5300e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.0942	1.0942	5.0000e-005	0.0000	1.0954
Total	6.8000e-004	6.2000e-004	5.5300e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.0942	1.0942	5.0000e-005	0.0000	1.0954

3.6 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	0.0657	0.5948	0.5223	8.3000e-004		0.0346	0.0346		0.0326	0.0326	0.0000	71.7991	71.7991	0.0175	0.0000	72.2370
Total	0.0657	0.5948	0.5223	8.3000e-004		0.0346	0.0346		0.0326	0.0326	0.0000	71.7991	71.7991	0.0175	0.0000	72.2370

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	3.0300e-003	0.0923	0.0255	1.9000e-004	4.4600e-003	5.6000e-004	5.0200e-003	1.2900e-003	5.4000e-004	1.8300e-003	0.0000	17.7802	17.7802	7.4000e-004	0.0000	17.7987
Worker	0.0109	0.0100	0.0891	2.0000e-004	0.0191	1.7000e-004	0.0193	5.0900e-003	1.5000e-004	5.2500e-003	0.0000	17.6382	17.6382	7.5000e-004	0.0000	17.6571
Total	0.0139	0.1024	0.1145	3.9000e-004	0.0236	7.3000e-004	0.0243	6.3800e-003	6.9000e-004	7.0800e-003	0.0000	35.4184	35.4184	1.4900e-003	0.0000	35.4558

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	0.0657	0.5948	0.5223	8.3000e-004		0.0346	0.0346		0.0326	0.0326	0.0000	71.7990	71.7990	0.0175	0.0000	72.2369
Total	0.0657	0.5948	0.5223	8.3000e-004		0.0346	0.0346		0.0326	0.0326	0.0000	71.7990	71.7990	0.0175	0.0000	72.2369

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	3.0300e-003	0.0923	0.0255	1.9000e-004	4.2700e-003	5.6000e-004	4.8300e-003	1.2400e-003	5.4000e-004	1.7800e-003	0.0000	17.7802	17.7802	7.4000e-004	0.0000	17.7987
Worker	0.0109	0.0100	0.0891	2.0000e-004	0.0182	1.7000e-004	0.0183	4.8500e-003	1.5000e-004	5.0000e-003	0.0000	17.6382	17.6382	7.5000e-004	0.0000	17.6571
Total	0.0139	0.1024	0.1145	3.9000e-004	0.0224	7.3000e-004	0.0232	6.0900e-003	6.9000e-004	6.7800e-003	0.0000	35.4184	35.4184	1.4900e-003	0.0000	35.4558

3.6 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	0.1597	1.4643	1.3923	2.2600e-003		0.0805	0.0805		0.0757	0.0757	0.0000	194.5753	194.5753	0.0469	0.0000	195.7489
Total	0.1597	1.4643	1.3923	2.2600e-003		0.0805	0.0805		0.0757	0.0757	0.0000	194.5753	194.5753	0.0469	0.0000	195.7489

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5400e-003	0.2263	0.0605	5.0000e-004	0.0121	7.3000e-004	0.0128	3.4900e-003	7.0000e-004	4.1900e-003	0.0000	47.8117	47.8117	1.9000e-003	0.0000	47.8592
Worker	0.0275	0.0243	0.2201	5.2000e-004	0.0519	4.4000e-004	0.0523	0.0138	4.1000e-004	0.0142	0.0000	46.5188	46.5188	1.8400e-003	0.0000	46.5648
Total	0.0341	0.2506	0.2806	1.0200e-003	0.0640	1.1700e-003	0.0651	0.0173	1.1100e-003	0.0184	0.0000	94.3304	94.3304	3.7400e-003	0.0000	94.4239

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	0.1597	1.4643	1.3923	2.2600e-003		0.0805	0.0805		0.0757	0.0757	0.0000	194.5751	194.5751	0.0469	0.0000	195.7486
Total	0.1597	1.4643	1.3923	2.2600e-003		0.0805	0.0805		0.0757	0.0757	0.0000	194.5751	194.5751	0.0469	0.0000	195.7486

Mitigated Construction Off-Site

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7000e-004	5.9000e-004	5.3700e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1360	1.1360	4.0000e-005	0.0000	1.1371
Total	6.7000e-004	5.9000e-004	5.3700e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1360	1.1360	4.0000e-005	0.0000	1.1371

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	0.4858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	0.4880	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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	6.7000e-004	5.9000e-004	5.3700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1360	1.1360	4.0000e-005	0.0000	1.1371
Total	6.7000e-004	5.9000e-004	5.3700e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1360	1.1360	4.0000e-005	0.0000	1.1371

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5026	1.5328	4.7934	0.0100	0.8312	0.0121	0.8433	0.2232	0.0114	0.2346	0.0000	914.1356	914.1356	0.0493	0.0000	915.3670
Unmitigated	0.5455	1.8069	5.7857	0.0132	1.1182	0.0156	1.1338	0.3003	0.0146	0.3149	0.0000	1,204.5270	1,204.5270	0.0614	0.0000	1,206.0624

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	256.36	256.36	256.36	738,545	549,002
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	83.26	83.26	83.26	198,975	147,909
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,338.91	1,338.91	1,338.91	2,061,961	1,532,772
Total	1,678.53	1,678.53	1,678.53	2,999,481	2,229,683

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %
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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
Condo/Townhouse	10.80	7.30	7.50	44.00	18.80	37.20	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Enclosed Parking with Elevator	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
General Office Building	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Parking Lot	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145
Strip Mall	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	55.1136	55.1136	9.3500e-003	1.9300e-003	55.9235
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.2341	61.2341	0.0104	2.1500e-003	62.1340

NaturalGas Mitigated	5.5100e-003	0.0475	0.0233	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5078	54.5078	1.0400e-003	1.0000e-003	54.8318
NaturalGas Unmitigated	7.5100e-003	0.0648	0.0319	4.1000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	74.3711	74.3711	1.4300e-003	1.3600e-003	74.8131

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					
Condo/Townhouse	1.1814e+006	6.3700e-003	0.0544	0.0232	3.5000e-004		4.4000e-003	4.4000e-003		4.4000e-003	4.4000e-003	0.0000	63.0439	63.0439	1.2100e-003	1.1600e-003	63.4186
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	153770	8.3000e-004	7.5400e-003	6.3300e-003	5.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.2058	8.2058	1.6000e-004	1.5000e-004	8.2545
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	58493.6	3.2000e-004	2.8700e-003	2.4100e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.1214	3.1214	6.0000e-005	6.0000e-005	3.1400
Total		7.5200e-003	0.0649	0.0319	4.2000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	74.3711	74.3711	1.4300e-003	1.3700e-003	74.8131

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					
Condo/Townhouse	867773	4.6800e-003	0.0400	0.0170	2.6000e-004		3.2300e-003	3.2300e-003		3.2300e-003	3.2300e-003	0.0000	46.3077	46.3077	8.9000e-004	8.5000e-004	46.5829
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	110049	5.9000e-004	5.3900e-003	4.5300e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8727	5.8727	1.1000e-004	1.1000e-004	5.9076

Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Strip Mall	43615.9	2.4000e-004	2.1400e-003	1.8000e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3275	2.3275	4.0000e-005	4.0000e-005	2.3413
Total		5.5100e-003	0.0475	0.0234	3.0000e-004		3.8000e-003	3.8000e-003		3.8000e-003	3.8000e-003	0.0000	54.5078	54.5078	1.0400e-003	1.0000e-003	54.8318

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	260033	20.1693	3.4200e-003	7.1000e-004	20.4657
Enclosed Parking with Elevator	285968	22.1809	3.7600e-003	7.8000e-004	22.5069
General Office Building	99278.4	7.7005	1.3100e-003	2.7000e-004	7.8136
Parking Lot	10920	0.8470	1.4000e-004	3.0000e-005	0.8595
Strip Mall	133264	10.3365	1.7500e-003	3.6000e-004	10.4884
Total		61.2341	0.0104	2.1500e-003	62.1340

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	256842	19.9218	3.3800e-003	7.0000e-004	20.2146
Enclosed Parking with Elevator	228579	17.7296	3.0100e-003	6.2000e-004	17.9901

Consumer Products	0.2890					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	0.0165	6.2200e-003	0.5397	3.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	0.8815	0.8815	8.6000e-004	0.0000	0.9029
Total	0.3541	6.2200e-003	0.5397	3.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	0.8815	0.8815	8.6000e-004	0.0000	0.9029

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	0.0486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2890					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0165	6.2200e-003	0.5397	3.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	0.8815	0.8815	8.6000e-004	0.0000	0.9029
Total	0.3541	6.2200e-003	0.5397	3.0000e-005		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	0.8815	0.8815	8.6000e-004	0.0000	0.9029

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
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Category	MT/yr			
Mitigated	5.2058	0.1878	4.5400e-003	11.2527
Unmitigated	5.2058	0.1878	4.5400e-003	11.2527

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.38801 / 2.13592	3.0767	0.1107	2.6800e-003	6.6428
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.41476 / 0.867111	1.2780	0.0462	1.1200e-003	2.7671
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.942202 / 0.577479	0.8511	0.0308	7.4000e-004	1.8428
Total		5.2058	0.1878	4.5400e-003	11.2527

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Condo/Townhouse	3.38801 / 2.13592	3.0767	0.1107	2.6800e- 003	6.6428
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.41476 / 0.867111	1.2780	0.0462	1.1200e- 003	2.7671
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.942202 / 0.577479	0.8511	0.0308	7.4000e- 004	1.8428
Total		5.2058	0.1878	4.5400e- 003	11.2527

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.5348	0.2680	0.0000	11.2348
Unmitigated	9.0696	0.5360	0.0000	22.4696

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	23.92	4.8555	0.2870	0.0000	12.0294
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	7.4	1.5021	0.0888	0.0000	3.7215
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	13.36	2.7120	0.1603	0.0000	6.7188
Total		9.0696	0.5360	0.0000	22.4696

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	11.96	2.4278	0.1435	0.0000	6.0147
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	3.7	0.7511	0.0444	0.0000	1.8607
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	6.68	1.3560	0.0801	0.0000	3.3594
Total		4.5348	0.2680	0.0000	11.2348

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
