

Hillsdale Terraces
San Mateo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	171.00	Space	0.00	68,400.00	0
High Turnover (Sit Down Restaurant)	13.98	1000sqft	0.00	13,980.00	0
Condo/Townhouse High Rise	74.00	Dwelling Unit	1.00	74,000.00	212

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	368.08	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 PG&E CO2 intensity factor used.

Land Use - glitch

Construction Phase - building construction, paving, and architectural coating assumed to occur simultaneously.

Trips and VMT -

Demolition -

Grading - 40,938 cubic yards for excavation divided into site prep and grading.

Vehicle Trips - Rates adjusted per Traffic Report.

Energy Use - glitch

Construction Off-road Equipment Mitigation - glitch

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Assumed PV solar on 1/4 of acre and 8 watts per square foot.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	100.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	5.00	100.00
tblConstructionPhase	NumDays	1.00	22.00
tblConstructionPhase	PhaseEndDate	12/20/2017	8/2/2017
tblConstructionPhase	PhaseEndDate	12/20/2017	8/2/2017
tblConstructionPhase	PhaseStartDate	8/3/2017	3/16/2017
tblConstructionPhase	PhaseStartDate	8/3/2017	3/16/2017
tblGrading	AcresOfGrading	7.88	0.75
tblGrading	AcresOfGrading	11.00	0.50
tblGrading	MaterialExported	0.00	20,469.00

tblGrading	MaterialExported	0.00	20,469.00
tblLandUse	LotAcreage	1.54	0.00
tblLandUse	LotAcreage	0.32	0.00
tblLandUse	LotAcreage	1.16	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	368.08
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	158.37	127.20
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	131.84	127.20
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	127.15	127.20

2.0 Emissions Summary

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	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704
Energy	0.1233	1.0922	0.7294	6.7300e-003		0.0852	0.0852		0.0852	0.0852		1,345.4129	1,345.4129	0.0258	0.0247	1,353.6009
Mobile	5.3787	7.0686	39.6133	0.0876	6.3997	0.1014	6.5011	1.7106	0.0935	1.8041		7,129.2083	7,129.2083	0.3020		7,135.5498
Total	35.6430	8.5878	78.7005	0.1077	6.3997	4.7972	11.1969	1.7106	4.7886	6.4992	475.7190	9,491.1840	9,966.9030	0.8086	0.0766	10,007.6210

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	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704
Energy	0.1137	1.0088	0.6841	6.2000e-003		0.0786	0.0786		0.0786	0.0786		1,240.6885	1,240.6885	0.0238	0.0228	1,248.2391
Mobile	5.0103	5.2428	30.0264	0.0584	4.1331	0.0713	4.2044	1.1047	0.0658	1.1705		4,745.2908	4,745.2908	0.2153		4,749.8115
Total	35.2651	6.6785	69.0682	0.0779	4.1331	4.7605	8.8936	1.1047	4.7543	5.8590	475.7190	7,002.5421	7,478.2611	0.7199	0.0747	7,516.5209

	ROG	NOx	CO	SO2	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	1.06	22.23	12.24	27.66	35.42	0.77	20.57	35.42	0.72	9.85	0.00	26.22	24.97	10.97	2.51	24.89

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/13/2017	5	10	
2	Site Preparation	Site Preparation	1/14/2017	2/14/2017	5	22	
3	Grading	Grading	2/15/2017	3/15/2017	5	21	
4	Building Construction	Building Construction	3/16/2017	8/2/2017	5	100	
5	Paving	Paving	3/16/2017	8/2/2017	5	100	
6	Architectural Coating	Architectural Coating	3/16/2017	8/2/2017	5	100	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0

Residential Indoor: 149,850; Residential Outdoor: 49,950; Non-Residential Indoor: 123,570; Non-Residential Outdoor: 41,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	39.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,559.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	2,559.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	88.00	21.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8423	0.0000	0.8423	0.1275	0.0000	0.1275			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2,457.468 2	2,457.468 2	0.6235		2,470.562 0
Total	2.7216	26.5855	20.8712	0.0245	0.8423	1.6062	2.4485	0.1275	1.5022	1.6298		2,457.468 2	2,457.468 2	0.6235		2,470.562 0

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0874	1.0157	1.1439	2.8400e-003	0.0675	0.0128	0.0803	0.0185	0.0117	0.0302		281.2039	281.2039	2.0100e-003		281.2460
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	0.0428	0.0571	0.6405	1.4600e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		119.2236	119.2236	5.8500e-003		119.3465
Total	0.1303	1.0728	1.7844	4.3000e-003	0.1901	0.0137	0.2038	0.0510	0.0126	0.0636		400.4275	400.4275	7.8600e-003		400.5925

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					0.8423	0.0000	0.8423	0.1275	0.0000	0.1275			0.0000			0.0000
Off-Road	0.5689	12.2343	15.5622	0.0245		0.7231	0.7231		0.7231	0.7231	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620
Total	0.5689	12.2343	15.5622	0.0245	0.8423	0.7231	1.5654	0.1275	0.7231	0.8507	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0874	1.0157	1.1439	2.8400e-003	0.0675	0.0128	0.0803	0.0185	0.0117	0.0302		281.2039	281.2039	2.0100e-003		281.2460
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	0.0428	0.0571	0.6405	1.4600e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		119.2236	119.2236	5.8500e-003		119.3465
Total	0.1303	1.0728	1.7844	4.3000e-003	0.1901	0.0137	0.2038	0.0510	0.0126	0.0636		400.4275	400.4275	7.8600e-003		400.5925

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3987	0.0000	5.3987	2.9150	0.0000	2.9150			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022		1,752.1239	1,752.1239	0.5369		1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	5.3987	1.3067	6.7054	2.9150	1.2022	4.1172		1,752.1239	1,752.1239	0.5369		1,763.3977

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6074	30.2919	34.1160	0.0848	2.0145	0.3805	2.3950	0.5509	0.3499	0.9008		8,386.9545	8,386.9545	0.0598		8,388.2108
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	0.0264	0.0351	0.3941	9.0000e-004	0.0754	5.6000e-004	0.0760	0.0200	5.1000e-004	0.0205		73.3684	73.3684	3.6000e-003		73.4440
Total	2.6338	30.3270	34.5102	0.0857	2.0899	0.3811	2.4710	0.5709	0.3504	0.9213		8,460.3229	8,460.3229	0.0634		8,461.6548

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					5.3987	0.0000	5.3987	2.9150	0.0000	2.9150			0.0000			0.0000
Off-Road	0.4158	8.3054	11.0902	0.0171		0.4010	0.4010		0.4010	0.4010	0.0000	1,752.1239	1,752.1239	0.5369		1,763.3977
Total	0.4158	8.3054	11.0902	0.0171	5.3987	0.4010	5.7996	2.9150	0.4010	3.3160	0.0000	1,752.1239	1,752.1239	0.5369		1,763.3977

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6074	30.2919	34.1160	0.0848	2.0145	0.3805	2.3950	0.5509	0.3499	0.9008		8,386.9545	8,386.9545	0.0598		8,388.2108
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	0.0264	0.0351	0.3941	9.0000e-004	0.0754	5.6000e-004	0.0760	0.0200	5.1000e-004	0.0205		73.3684	73.3684	3.6000e-003		73.4440
Total	2.6338	30.3270	34.5102	0.0857	2.0899	0.3811	2.4710	0.5709	0.3504	0.9213		8,460.3229	8,460.3229	0.0634		8,461.6548

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6647	0.0000	4.6647	2.5035	0.0000	2.5035			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808		1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	4.6647	1.0661	5.7308	2.5035	0.9808	3.4843		1,439.1894	1,439.1894	0.4410		1,448.4496

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.7316	31.7344	35.7406	0.0888	2.1104	0.3986	2.5090	0.5771	0.3666	0.9437		8,786.3333	8,786.3333	0.0627		8,787.6494
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	0.0264	0.0351	0.3941	9.0000e-004	0.0754	5.6000e-004	0.0760	0.0200	5.1000e-004	0.0205		73.3684	73.3684	3.6000e-003		73.4440
Total	2.7579	31.7695	36.1348	0.0897	2.1858	0.3992	2.5850	0.5971	0.3671	0.9642		8,859.7017	8,859.7017	0.0663		8,861.0935

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6647	0.0000	4.6647	2.5035	0.0000	2.5035			0.0000			0.0000
Off-Road	0.3416	6.8371	9.0489	0.0141		0.3308	0.3308		0.3308	0.3308	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496
Total	0.3416	6.8371	9.0489	0.0141	4.6647	0.3308	4.9954	2.5035	0.3308	2.8342	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.7316	31.7344	35.7406	0.0888	2.1104	0.3986	2.5090	0.5771	0.3666	0.9437		8,786.3333	8,786.3333	0.0627		8,787.6494
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	0.0264	0.0351	0.3941	9.0000e-004	0.0754	5.6000e-004	0.0760	0.0200	5.1000e-004	0.0205		73.3684	73.3684	3.6000e-003		73.4440
Total	2.7579	31.7695	36.1348	0.0897	2.1858	0.3992	2.5850	0.5971	0.3671	0.9642		8,859.7017	8,859.7017	0.0663		8,861.0935

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2293	1.8458	2.7580	4.9100e-003	0.1390	0.0262	0.1652	0.0396	0.0241	0.0637		483.7996	483.7996	3.6700e-003		483.8766
Worker	0.2899	0.3865	4.3356	9.8700e-003	0.8299	6.1100e-003	0.8360	0.2201	5.6200e-003	0.2257		807.0522	807.0522	0.0396		807.8841
Total	0.5192	2.2324	7.0936	0.0148	0.9689	0.0323	1.0012	0.2597	0.0297	0.2895		1,290.8518	1,290.8518	0.0433		1,291.7608

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6384	12.0322	13.4287	0.0220		0.7298	0.7298		0.7298	0.7298	0.0000	2,034.2860	2,034.2860	0.4268		2,043.2497
Total	0.6384	12.0322	13.4287	0.0220		0.7298	0.7298		0.7298	0.7298	0.0000	2,034.2860	2,034.2860	0.4268		2,043.2497

3.5 Building Construction - 2017**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2293	1.8458	2.7580	4.9100e-003	0.1390	0.0262	0.1652	0.0396	0.0241	0.0637		483.7996	483.7996	3.6700e-003		483.8766
Worker	0.2899	0.3865	4.3356	9.8700e-003	0.8299	6.1100e-003	0.8360	0.2201	5.6200e-003	0.2257		807.0522	807.0522	0.0396		807.8841
Total	0.5192	2.2324	7.0936	0.0148	0.9689	0.0323	1.0012	0.2597	0.0297	0.2895		1,290.8518	1,290.8518	0.0433		1,291.7608

3.6 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1857	12.0981	9.0308	0.0133		0.7333	0.7333		0.6755	0.6755		1,347.6575	1,347.6575	0.4052		1,356.1677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1857	12.0981	9.0308	0.0133		0.7333	0.7333		0.6755	0.6755		1,347.6575	1,347.6575	0.4052		1,356.1677

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			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	0.0428	0.0571	0.6405	1.4600e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		119.2236	119.2236	5.8500e-003			119.3465
Total	0.0428	0.0571	0.6405	1.4600e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		119.2236	119.2236	5.8500e-003			119.3465

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.3146	6.5459	9.7014	0.0133		0.3818	0.3818		0.3818	0.3818	0.0000	1,347.6575	1,347.6575	0.4052			1,356.1677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.3146	6.5459	9.7014	0.0133		0.3818	0.3818		0.3818	0.3818	0.0000	1,347.6575	1,347.6575	0.4052			1,356.1677

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			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	0.0428	0.0571	0.6405	1.4600e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		119.2236	119.2236	5.8500e-003			119.3465
Total	0.0428	0.0571	0.6405	1.4600e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		119.2236	119.2236	5.8500e-003			119.3465

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	42.2434					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
Total	42.5757	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			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	0.0593	0.0791	0.8868	2.0200e-003	0.1698	1.2500e-003	0.1710	0.0450	1.1500e-003	0.0462		165.0789	165.0789	8.1000e-003			165.2490
Total	0.0593	0.0791	0.8868	2.0200e-003	0.1698	1.2500e-003	0.1710	0.0450	1.1500e-003	0.0462		165.0789	165.0789	8.1000e-003			165.2490

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	42.2434					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297			282.0721
Total	42.3028	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		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	0.0593	0.0791	0.8868	2.0200e-003	0.1698	1.2500e-003	0.1710	0.0450	1.1500e-003	0.0462		165.0789	165.0789	8.1000e-003		165.2490
Total	0.0593	0.0791	0.8868	2.0200e-003	0.1698	1.2500e-003	0.1710	0.0450	1.1500e-003	0.0462		165.0789	165.0789	8.1000e-003		165.2490

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Improve Pedestrian Network

Unbundle Parking Cost

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0103	5.2428	30.0264	0.0584	4.1331	0.0713	4.2044	1.1047	0.0658	1.1705		4,745.2908	4,745.2908	0.2153		4,749.8115
Unmitigated	5.3787	7.0686	39.6133	0.0876	6.3997	0.1014	6.5011	1.7106	0.0935	1.8041		7,129.2083	7,129.2083	0.3020		7,135.5498

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	429.94	429.94	429.94	959,783	619,852
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,778.26	1,778.26	1,778.26	2,063,247	1,332,496
Total	2,208.20	2,208.20	2,208.20	3,023,031	1,952,347

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 High Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579415	0.062669	0.176431	0.113724	0.029579	0.004153	0.015740	0.004138	0.002638	0.003681	0.006622	0.000227	0.000983

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1137	1.0088	0.6841	6.2000e-003		0.0786	0.0786		0.0786	0.0786		1,240.6885	1,240.6885	0.0238	0.0228	1,248.2391
NaturalGas Unmitigated	0.1233	1.0922	0.7294	6.7300e-003		0.0852	0.0852		0.0852	0.0852		1,345.4129	1,345.4129	0.0258	0.0247	1,353.6009

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High Turnover (Sit Down Restaurant)	6511.62	0.0702	0.6384	0.5363	3.8300e-003		0.0485	0.0485		0.0485	0.0485		766.0725	766.0725	0.0147	0.0140	770.7347
Condo/Townhouse High Rise	4924.39	0.0531	0.4538	0.1931	2.9000e-003		0.0367	0.0367		0.0367	0.0367		579.3405	579.3405	0.0111	0.0106	582.8662
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
Total		0.1233	1.0922	0.7294	6.7300e-003		0.0852	0.0852		0.0852	0.0852		1,345.4129	1,345.4129	0.0258	0.0247	1,353.6009

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High Turnover (Sit Down Restaurant)	6.27037	0.0676	0.6147	0.5164	3.6900e-003		0.0467	0.0467		0.0467	0.0467		737.6911	737.6911	0.0141	0.0135	742.1806
Condo/Townhouse High Rise	4.27548	0.0461	0.3940	0.1677	2.5100e-003		0.0319	0.0319		0.0319	0.0319		502.9974	502.9974	9.6400e-003	9.2200e-003	506.0585
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
Total		0.1137	1.0088	0.6841	6.2000e-003		0.0786	0.0786		0.0786	0.0786		1,240.6885	1,240.6885	0.0238	0.0227	1,248.2391

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	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704
Unmitigated	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704

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	0.5208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	26.0823	0.3554	32.1903	0.0131		4.5770	4.5770		4.5763	4.5763	475.7190	1,005.5294	1,481.2484	0.4699	0.0519	1,507.2059
Landscaping	0.1914	0.0715	6.1674	3.2000e-004		0.0336	0.0336		0.0336	0.0336		11.0334	11.0334	0.0110		11.2645
Total	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	26.0823	0.3554	32.1903	0.0131		4.5770	4.5770		4.5763	4.5763	475.7190	1,005.5294	1,481.2484	0.4699	0.0519	1,507.2059
Landscaping	0.1914	0.0715	6.1674	3.2000e-004		0.0336	0.0336		0.0336	0.0336		11.0334	11.0334	0.0110		11.2645
Total	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Hillsdale Terraces
San Mateo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	171.00	Space	0.00	68,400.00	0
High Turnover (Sit Down Restaurant)	13.98	1000sqft	0.00	13,980.00	0
Condo/Townhouse High Rise	74.00	Dwelling Unit	1.00	74,000.00	212

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	368.08	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 PG&E CO2 intensity factor used.

Land Use - glitch

Construction Phase - building construction, paving, and architectural coating assumed to occur simultaneously.

Trips and VMT -

Demolition -

Grading - 40,938 cubic yards for excavation divided into site prep and grading.

Vehicle Trips - Rates adjusted per Traffic Report.

Energy Use - glitch

Construction Off-road Equipment Mitigation - glitch

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Assumed PV solar on 1/4 of acre and 8 watts per square foot.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	100.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	5.00	100.00
tblConstructionPhase	NumDays	1.00	22.00
tblConstructionPhase	PhaseEndDate	12/20/2017	8/2/2017
tblConstructionPhase	PhaseEndDate	12/20/2017	8/2/2017
tblConstructionPhase	PhaseStartDate	8/3/2017	3/16/2017
tblConstructionPhase	PhaseStartDate	8/3/2017	3/16/2017
tblGrading	AcresOfGrading	7.88	0.75
tblGrading	AcresOfGrading	11.00	0.50
tblGrading	MaterialExported	0.00	20,469.00

tblGrading	MaterialExported	0.00	20,469.00
tblLandUse	LotAcreage	1.54	0.00
tblLandUse	LotAcreage	0.32	0.00
tblLandUse	LotAcreage	1.16	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	368.08
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	158.37	127.20
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	131.84	127.20
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	127.15	127.20

2.0 Emissions Summary

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	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704
Energy	0.1233	1.0922	0.7294	6.7300e-003		0.0852	0.0852		0.0852	0.0852		1,345.4129	1,345.4129	0.0258	0.0247	1,353.6009
Mobile	5.7133	7.9650	46.9758	0.0833	6.3997	0.1021	6.5017	1.7106	0.0941	1.8047		6,775.4725	6,775.4725	0.3022		6,781.8178
Total	35.9776	9.4842	86.0629	0.1034	6.3997	4.7979	11.1976	1.7106	4.7892	6.4998	475.7190	9,137.4482	9,613.1672	0.8088	0.0766	9,653.8890

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	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704
Energy	0.1137	1.0088	0.6841	6.2000e-003		0.0786	0.0786		0.0786	0.0786		1,240.6885	1,240.6885	0.0238	0.0228	1,248.2391
Mobile	5.3471	5.8839	38.0063	0.0556	4.1331	0.0720	4.2050	1.1047	0.0664	1.1711		4,513.6296	4,513.6296	0.2155		4,518.1541
Total	35.6019	7.3196	77.0481	0.0752	4.1331	4.7612	8.8942	1.1047	4.7549	5.8596	475.7190	6,770.8809	7,246.5999	0.7201	0.0747	7,284.8636

	ROG	NOx	CO	SO2	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	1.04	22.82	10.47	27.31	35.42	0.77	20.57	35.42	0.72	9.85	0.00	25.90	24.62	10.97	2.51	24.54

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/13/2017	5	10	
2	Site Preparation	Site Preparation	1/14/2017	2/14/2017	5	22	
3	Grading	Grading	2/15/2017	3/15/2017	5	21	
4	Building Construction	Building Construction	3/16/2017	8/2/2017	5	100	
5	Paving	Paving	3/16/2017	8/2/2017	5	100	
6	Architectural Coating	Architectural Coating	3/16/2017	8/2/2017	5	100	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0

Residential Indoor: 149,850; Residential Outdoor: 49,950; Non-Residential Indoor: 123,570; Non-Residential Outdoor: 41,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	39.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,559.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	2,559.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	88.00	21.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8423	0.0000	0.8423	0.1275	0.0000	0.1275			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2,457.468 2	2,457.468 2	0.6235		2,470.562 0
Total	2.7216	26.5855	20.8712	0.0245	0.8423	1.6062	2.4485	0.1275	1.5022	1.6298		2,457.468 2	2,457.468 2	0.6235		2,470.562 0

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1021	1.0763	1.5014	2.8400e-003	0.0675	0.0128	0.0803	0.0185	0.0118	0.0302		280.5253	280.5253	2.0300e-003		280.5680
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	0.0445	0.0706	0.6376	1.3700e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		112.0600	112.0600	5.8500e-003		112.1829
Total	0.1466	1.1469	2.1389	4.2100e-003	0.1901	0.0137	0.2038	0.0510	0.0126	0.0636		392.5853	392.5853	7.8800e-003		392.7509

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					0.8423	0.0000	0.8423	0.1275	0.0000	0.1275			0.0000			0.0000
Off-Road	0.5689	12.2343	15.5622	0.0245		0.7231	0.7231		0.7231	0.7231	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620
Total	0.5689	12.2343	15.5622	0.0245	0.8423	0.7231	1.5654	0.1275	0.7231	0.8507	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1021	1.0763	1.5014	2.8400e-003	0.0675	0.0128	0.0803	0.0185	0.0118	0.0302		280.5253	280.5253	2.0300e-003		280.5680
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	0.0445	0.0706	0.6376	1.3700e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		112.0600	112.0600	5.8500e-003		112.1829
Total	0.1466	1.1469	2.1389	4.2100e-003	0.1901	0.0137	0.2038	0.0510	0.0126	0.0636		392.5853	392.5853	7.8800e-003		392.7509

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3987	0.0000	5.3987	2.9150	0.0000	2.9150			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022		1,752.1239	1,752.1239	0.5369		1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	5.3987	1.3067	6.7054	2.9150	1.2022	4.1172		1,752.1239	1,752.1239	0.5369		1,763.3977

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0441	32.1002	44.7785	0.0848	2.0145	0.3816	2.3960	0.5509	0.3509	0.9018		8,366.7166	8,366.7166	0.0607		8,367.9904
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	0.0274	0.0435	0.3923	8.4000e-004	0.0754	5.6000e-004	0.0760	0.0200	5.1000e-004	0.0205		68.9600	68.9600	3.6000e-003		69.0356
Total	3.0715	32.1436	45.1709	0.0856	2.0899	0.3821	2.4720	0.5709	0.3514	0.9223		8,435.6766	8,435.6766	0.0643		8,437.0260

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					5.3987	0.0000	5.3987	2.9150	0.0000	2.9150			0.0000			0.0000
Off-Road	0.4158	8.3054	11.0902	0.0171		0.4010	0.4010		0.4010	0.4010	0.0000	1,752.1239	1,752.1239	0.5369		1,763.3977
Total	0.4158	8.3054	11.0902	0.0171	5.3987	0.4010	5.7996	2.9150	0.4010	3.3160	0.0000	1,752.1239	1,752.1239	0.5369		1,763.3977

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0441	32.1002	44.7785	0.0848	2.0145	0.3816	2.3960	0.5509	0.3509	0.9018		8,366.7166	8,366.7166	0.0607		8,367.9904
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	0.0274	0.0435	0.3923	8.4000e-004	0.0754	5.6000e-004	0.0760	0.0200	5.1000e-004	0.0205		68.9600	68.9600	3.6000e-003		69.0356
Total	3.0715	32.1436	45.1709	0.0856	2.0899	0.3821	2.4720	0.5709	0.3514	0.9223		8,435.6766	8,435.6766	0.0643		8,437.0260

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6647	0.0000	4.6647	2.5035	0.0000	2.5035			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808		1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	4.6647	1.0661	5.7308	2.5035	0.9808	3.4843		1,439.1894	1,439.1894	0.4410		1,448.4496

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1891	33.6287	46.9108	0.0888	2.1104	0.3998	2.5101	0.5771	0.3676	0.9447		8,765.1317	8,765.1317	0.0636		8,766.4661
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	0.0274	0.0435	0.3923	8.4000e-004	0.0754	5.6000e-004	0.0760	0.0200	5.1000e-004	0.0205		68.9600	68.9600	3.6000e-003		69.0356
Total	3.2165	33.6722	47.3032	0.0896	2.1858	0.4003	2.5861	0.5971	0.3681	0.9652		8,834.0917	8,834.0917	0.0672		8,835.5018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6647	0.0000	4.6647	2.5035	0.0000	2.5035			0.0000			0.0000
Off-Road	0.3416	6.8371	9.0489	0.0141		0.3308	0.3308		0.3308	0.3308	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496
Total	0.3416	6.8371	9.0489	0.0141	4.6647	0.3308	4.9954	2.5035	0.3308	2.8342	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1891	33.6287	46.9108	0.0888	2.1104	0.3998	2.5101	0.5771	0.3676	0.9447		8,765.1317	8,765.1317	0.0636		8,766.4661
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	0.0274	0.0435	0.3923	8.4000e-004	0.0754	5.6000e-004	0.0760	0.0200	5.1000e-004	0.0205		68.9600	68.9600	3.6000e-003		69.0356
Total	3.2165	33.6722	47.3032	0.0896	2.1858	0.4003	2.5861	0.5971	0.3681	0.9652		8,834.0917	8,834.0917	0.0672		8,835.5018

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2847	1.9384	4.0918	4.9000e-003	0.1390	0.0265	0.1655	0.0396	0.0244	0.0640		480.0120	480.0120	3.7700e-003			480.0911
Worker	0.3013	0.4781	4.3158	9.2800e-003	0.8299	6.1100e-003	0.8360	0.2201	5.6200e-003	0.2257		758.5600	758.5600	0.0396			759.3919
Total	0.5859	2.4165	8.4075	0.0142	0.9689	0.0326	1.0015	0.2597	0.0300	0.2897		1,238.5720	1,238.5720	0.0434			1,239.4830

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.6384	12.0322	13.4287	0.0220		0.7298	0.7298		0.7298	0.7298	0.0000	2,034.2860	2,034.2860	0.4268			2,043.2497
Total	0.6384	12.0322	13.4287	0.0220		0.7298	0.7298		0.7298	0.7298	0.0000	2,034.2860	2,034.2860	0.4268			2,043.2497

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2847	1.9384	4.0918	4.9000e-003	0.1390	0.0265	0.1655	0.0396	0.0244	0.0640		480.0120	480.0120	3.7700e-003			480.0911
Worker	0.3013	0.4781	4.3158	9.2800e-003	0.8299	6.1100e-003	0.8360	0.2201	5.6200e-003	0.2257		758.5600	758.5600	0.0396			759.3919
Total	0.5859	2.4165	8.4075	0.0142	0.9689	0.0326	1.0015	0.2597	0.0300	0.2897		1,238.5720	1,238.5720	0.0434			1,239.4830

3.6 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1857	12.0981	9.0308	0.0133		0.7333	0.7333		0.6755	0.6755		1,347.6575	1,347.6575	0.4052			1,356.1677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.1857	12.0981	9.0308	0.0133		0.7333	0.7333		0.6755	0.6755		1,347.6575	1,347.6575	0.4052			1,356.1677

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			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	0.0445	0.0706	0.6376	1.3700e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		112.0600	112.0600	5.8500e-003			112.1829
Total	0.0445	0.0706	0.6376	1.3700e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		112.0600	112.0600	5.8500e-003			112.1829

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.3146	6.5459	9.7014	0.0133		0.3818	0.3818		0.3818	0.3818	0.0000	1,347.6575	1,347.6575	0.4052			1,356.1677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.3146	6.5459	9.7014	0.0133		0.3818	0.3818		0.3818	0.3818	0.0000	1,347.6575	1,347.6575	0.4052			1,356.1677

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		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	0.0445	0.0706	0.6376	1.3700e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		112.0600	112.0600	5.8500e-003		112.1829
Total	0.0445	0.0706	0.6376	1.3700e-003	0.1226	9.0000e-004	0.1235	0.0325	8.3000e-004	0.0334		112.0600	112.0600	5.8500e-003		112.1829

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.2434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	42.5757	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			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	0.0616	0.0978	0.8828	1.9000e-003	0.1698	1.2500e-003	0.1710	0.0450	1.1500e-003	0.0462		155.1600	155.1600	8.1000e-003			155.3302
Total	0.0616	0.0978	0.8828	1.9000e-003	0.1698	1.2500e-003	0.1710	0.0450	1.1500e-003	0.0462		155.1600	155.1600	8.1000e-003			155.3302

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	42.2434					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297			282.0721
Total	42.3028	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297			282.0721

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			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	0.0616	0.0978	0.8828	1.9000e-003	0.1698	1.2500e-003	0.1710	0.0450	1.1500e-003	0.0462		155.1600	155.1600	8.1000e-003			155.3302
Total	0.0616	0.0978	0.8828	1.9000e-003	0.1698	1.2500e-003	0.1710	0.0450	1.1500e-003	0.0462		155.1600	155.1600	8.1000e-003			155.3302

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Improve Pedestrian Network

Unbundle Parking Cost

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.3471	5.8839	38.0063	0.0556	4.1331	0.0720	4.2050	1.1047	0.0664	1.1711		4,513.6296	4,513.6296	0.2155		4,518.1541
Unmitigated	5.7133	7.9650	46.9758	0.0833	6.3997	0.1021	6.5017	1.7106	0.0941	1.8047		6,775.4725	6,775.4725	0.3022		6,781.8178

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	429.94	429.94	429.94	959,783	619,852
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,778.26	1,778.26	1,778.26	2,063,247	1,332,496
Total	2,208.20	2,208.20	2,208.20	3,023,031	1,952,347

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 High Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579415	0.062669	0.176431	0.113724	0.029579	0.004153	0.015740	0.004138	0.002638	0.003681	0.006622	0.000227	0.000983

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1137	1.0088	0.6841	6.2000e-003		0.0786	0.0786		0.0786	0.0786		1,240.6885	1,240.6885	0.0238	0.0228	1,248.2391
NaturalGas Unmitigated	0.1233	1.0922	0.7294	6.7300e-003		0.0852	0.0852		0.0852	0.0852		1,345.4129	1,345.4129	0.0258	0.0247	1,353.6009

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High Turnover (Sit Down Restaurant)	6511.62	0.0702	0.6384	0.5363	3.8300e-003		0.0485	0.0485		0.0485	0.0485		766.0725	766.0725	0.0147	0.0140	770.7347
Condo/Townhouse High Rise	4924.39	0.0531	0.4538	0.1931	2.9000e-003		0.0367	0.0367		0.0367	0.0367		579.3405	579.3405	0.0111	0.0106	582.8662
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
Total		0.1233	1.0922	0.7294	6.7300e-003		0.0852	0.0852		0.0852	0.0852		1,345.4129	1,345.4129	0.0258	0.0247	1,353.6009

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High Turnover (Sit Down Restaurant)	6.27037	0.0676	0.6147	0.5164	3.6900e-003		0.0467	0.0467		0.0467	0.0467		737.6911	737.6911	0.0141	0.0135	742.1806
Condo/Townhouse High Rise	4.27548	0.0461	0.3940	0.1677	2.5100e-003		0.0319	0.0319		0.0319	0.0319		502.9974	502.9974	9.6400e-003	9.2200e-003	506.0585
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
Total		0.1137	1.0088	0.6841	6.2000e-003		0.0786	0.0786		0.0786	0.0786		1,240.6885	1,240.6885	0.0238	0.0227	1,248.2391

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	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704
Unmitigated	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704

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	0.5208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	26.0823	0.3554	32.1903	0.0131		4.5770	4.5770		4.5763	4.5763	475.7190	1,005.5294	1,481.2484	0.4699	0.0519	1,507.2059
Landscaping	0.1914	0.0715	6.1674	3.2000e-004		0.0336	0.0336		0.0336	0.0336		11.0334	11.0334	0.0110		11.2645
Total	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	26.0823	0.3554	32.1903	0.0131		4.5770	4.5770		4.5763	4.5763	475.7190	1,005.5294	1,481.2484	0.4699	0.0519	1,507.2059
Landscaping	0.1914	0.0715	6.1674	3.2000e-004		0.0336	0.0336		0.0336	0.0336		11.0334	11.0334	0.0110		11.2645
Total	30.1410	0.4269	38.3578	0.0134		4.6106	4.6106		4.6099	4.6099	475.7190	1,016.5628	1,492.2818	0.4809	0.0519	1,518.4704

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Hillsdale Terraces
San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	171.00	Space	0.00	68,400.00	0
High Turnover (Sit Down Restaurant)	13.98	1000sqft	0.00	13,980.00	0
Condo/Townhouse High Rise	74.00	Dwelling Unit	1.00	74,000.00	212

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	368.08	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2020 PG&E CO2 intensity factor used.

Land Use - glitch

Construction Phase - building construction, paving, and architectural coating assumed to occur simultaneously.

Trips and VMT -

Demolition -

Grading - 40,938 cubic yards for excavation divided into site prep and grading.

Vehicle Trips - Rates adjusted per Traffic Report.

Energy Use - glitch

Construction Off-road Equipment Mitigation - glitch

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Assumed PV solar on 1/4 of acre and 8 watts per square foot.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	100.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	5.00	100.00
tblConstructionPhase	NumDays	1.00	22.00
tblConstructionPhase	PhaseEndDate	12/20/2017	8/2/2017
tblConstructionPhase	PhaseEndDate	12/20/2017	8/2/2017
tblConstructionPhase	PhaseStartDate	8/3/2017	3/16/2017
tblConstructionPhase	PhaseStartDate	8/3/2017	3/16/2017
tblGrading	AcresOfGrading	7.88	0.75
tblGrading	AcresOfGrading	11.00	0.50
tblGrading	MaterialExported	0.00	20,469.00

tblGrading	MaterialExported	0.00	20,469.00
tblLandUse	LotAcreage	1.54	0.00
tblLandUse	LotAcreage	0.32	0.00
tblLandUse	LotAcreage	1.16	1.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	368.08
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	ST_TR	7.16	5.81
tblVehicleTrips	ST_TR	158.37	127.20
tblVehicleTrips	SU_TR	6.07	5.81
tblVehicleTrips	SU_TR	131.84	127.20
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	127.15	127.20

2.0 Emissions Summary

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	0.7804	7.4100e-003	0.6372	1.0000e-004		0.0150	0.0150		0.0150	0.0150	1.2112	2.8575	4.0687	3.1500e-003	1.0000e-004	4.1661
Energy	0.0225	0.1993	0.1331	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	422.9663	422.9663	0.0200	7.3500e-003	425.6649
Mobile	0.9611	1.3864	7.7937	0.0152	1.1168	0.0185	1.1353	0.2996	0.0170	0.3166	0.0000	1,121.5085	1,121.5085	0.0498	0.0000	1,122.5546
Waste						0.0000	0.0000		0.0000	0.0000	40.6794	0.0000	40.6794	2.4041	0.0000	91.1651
Water						0.0000	0.0000		0.0000	0.0000	2.8758	10.1237	12.9996	0.2962	7.1400e-003	21.4325
Total	1.7640	1.5932	8.5640	0.0165	1.1168	0.0490	1.1659	0.2996	0.0476	0.3471	44.7664	1,557.4560	1,602.2224	2.7733	0.0146	1,664.9832

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7804	7.4100e-003	0.6372	1.0000e-004		0.0150	0.0150		0.0150	0.0150	1.2112	2.8575	4.0687	3.1500e-003	1.0000e-004	4.1661
Energy	0.0208	0.1841	0.1248	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	381.5993	381.5993	0.0178	6.6400e-003	384.0312
Mobile	0.8952	1.0261	6.1870	0.0101	0.7213	0.0130	0.7343	0.1935	0.0120	0.2055	0.0000	747.3399	747.3399	0.0355	0.0000	748.0857
Waste						0.0000	0.0000		0.0000	0.0000	40.6794	0.0000	40.6794	2.4041	0.0000	91.1651
Water						0.0000	0.0000		0.0000	0.0000	2.5595	9.2229	11.7824	0.2636	6.3500e-003	19.2850
Total	1.6964	1.2176	6.9490	0.0114	0.7213	0.0423	0.7636	0.1935	0.0413	0.2348	44.4501	1,141.0196	1,185.4697	2.7241	0.0131	1,246.7331

	ROG	NOx	CO	SO2	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	3.84	23.57	18.86	31.19	35.42	13.63	34.50	35.42	13.14	32.36	0.71	26.74	26.01	1.77	10.28	25.12

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/13/2017	5	10	
2	Site Preparation	Site Preparation	1/14/2017	2/14/2017	5	22	
3	Grading	Grading	2/15/2017	3/15/2017	5	21	
4	Building Construction	Building Construction	3/16/2017	8/2/2017	5	100	
5	Paving	Paving	3/16/2017	8/2/2017	5	100	
6	Architectural Coating	Architectural Coating	3/16/2017	8/2/2017	5	100	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0.75

Acres of Paving: 0

Residential Indoor: 149,850; Residential Outdoor: 49,950; Non-Residential Indoor: 123,570; Non-Residential Outdoor: 41,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	39.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	2,559.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	2,559.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	88.00	21.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.2100e-003	0.0000	4.2100e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0136	0.1329	0.1044	1.2000e-004		8.0300e-003	8.0300e-003		7.5100e-003	7.5100e-003	0.0000	11.1469	11.1469	2.8300e-003	0.0000	11.2063
Total	0.0136	0.1329	0.1044	1.2000e-004	4.2100e-003	8.0300e-003	0.0122	6.4000e-004	7.5100e-003	8.1500e-003	0.0000	11.1469	11.1469	2.8300e-003	0.0000	11.2063

3.2 Demolition - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7000e-004	5.2900e-003	6.6800e-003	1.0000e-005	3.3000e-004	6.0000e-005	3.9000e-004	9.0000e-005	6.0000e-005	1.5000e-004	0.0000	1.2742	1.2742	1.0000e-005	0.0000	1.2744
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	3.3000e-004	3.0700e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5102	0.5102	3.0000e-005	0.0000	0.5107
Total	6.8000e-004	5.6200e-003	9.7500e-003	2.0000e-005	9.2000e-004	6.0000e-005	9.8000e-004	2.5000e-004	6.0000e-005	3.1000e-004	0.0000	1.7844	1.7844	4.0000e-005	0.0000	1.7852

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					4.2100e-003	0.0000	4.2100e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8400e-003	0.0612	0.0778	1.2000e-004		3.6200e-003	3.6200e-003		3.6200e-003	3.6200e-003	0.0000	11.1469	11.1469	2.8300e-003	0.0000	11.2063
Total	2.8400e-003	0.0612	0.0778	1.2000e-004	4.2100e-003	3.6200e-003	7.8300e-003	6.4000e-004	3.6200e-003	4.2600e-003	0.0000	11.1469	11.1469	2.8300e-003	0.0000	11.2063

3.2 Demolition - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7000e-004	5.2900e-003	6.6800e-003	1.0000e-005	3.3000e-004	6.0000e-005	3.9000e-004	9.0000e-005	6.0000e-005	1.5000e-004	0.0000	1.2742	1.2742	1.0000e-005	0.0000	1.2744
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	3.3000e-004	3.0700e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5102	0.5102	3.0000e-005	0.0000	0.5107
Total	6.8000e-004	5.6200e-003	9.7500e-003	2.0000e-005	9.2000e-004	6.0000e-005	9.8000e-004	2.5000e-004	6.0000e-005	3.1000e-004	0.0000	1.7844	1.7844	4.0000e-005	0.0000	1.7852

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0594	0.0000	0.0594	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2665	0.1752	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970
Total	0.0254	0.2665	0.1752	1.9000e-004	0.0594	0.0144	0.0738	0.0321	0.0132	0.0453	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970

3.3 Site Preparation - 2017**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0311	0.3471	0.4381	9.3000e-004	0.0214	4.1900e-003	0.0255	5.8600e-003	3.8500e-003	9.7100e-003	0.0000	83.6089	83.6089	6.0000e-004	0.0000	83.6215
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	4.4000e-004	4.1500e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6907	0.6907	4.0000e-005	0.0000	0.6915
Total	0.0314	0.3475	0.4423	9.4000e-004	0.0222	4.2000e-003	0.0263	6.0700e-003	3.8600e-003	9.9300e-003	0.0000	84.2996	84.2996	6.4000e-004	0.0000	84.3129

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					0.0594	0.0000	0.0594	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5700e-003	0.0914	0.1220	1.9000e-004		4.4100e-003	4.4100e-003		4.4100e-003	4.4100e-003	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970
Total	4.5700e-003	0.0914	0.1220	1.9000e-004	0.0594	4.4100e-003	0.0638	0.0321	4.4100e-003	0.0365	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970

3.3 Site Preparation - 2017**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0311	0.3471	0.4381	9.3000e-004	0.0214	4.1900e-003	0.0255	5.8600e-003	3.8500e-003	9.7100e-003	0.0000	83.6089	83.6089	6.0000e-004	0.0000	83.6215
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	4.4000e-004	4.1500e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6907	0.6907	4.0000e-005	0.0000	0.6915
Total	0.0314	0.3475	0.4423	9.4000e-004	0.0222	4.2000e-003	0.0263	6.0700e-003	3.8600e-003	9.9300e-003	0.0000	84.2996	84.2996	6.4000e-004	0.0000	84.3129

3.4 Grading - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0490	0.0000	0.0490	0.0263	0.0000	0.0263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.2078	0.1384	1.5000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971
Total	0.0198	0.2078	0.1384	1.5000e-004	0.0490	0.0112	0.0602	0.0263	0.0103	0.0366	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971

3.4 Grading - 2017**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0311	0.3471	0.4381	9.3000e-004	0.0214	4.1900e-003	0.0255	5.8600e-003	3.8500e-003	9.7100e-003	0.0000	83.6089	83.6089	6.0000e-004	0.0000	83.6215
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	4.2000e-004	3.9700e-003	1.0000e-005	7.6000e-004	1.0000e-005	7.6000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6593	0.6593	3.0000e-005	0.0000	0.6600
Total	0.0314	0.3475	0.4421	9.4000e-004	0.0221	4.2000e-003	0.0263	6.0600e-003	3.8600e-003	9.9200e-003	0.0000	84.2682	84.2682	6.3000e-004	0.0000	84.2815

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					0.0490	0.0000	0.0490	0.0263	0.0000	0.0263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0718	0.0950	1.5000e-004		3.4700e-003	3.4700e-003		3.4700e-003	3.4700e-003	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971
Total	3.5900e-003	0.0718	0.0950	1.5000e-004	0.0490	3.4700e-003	0.0525	0.0263	3.4700e-003	0.0298	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0311	0.3471	0.4381	9.3000e-004	0.0214	4.1900e-003	0.0255	5.8600e-003	3.8500e-003	9.7100e-003	0.0000	83.6089	83.6089	6.0000e-004	0.0000	83.6215
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	4.2000e-004	3.9700e-003	1.0000e-005	7.6000e-004	1.0000e-005	7.6000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6593	0.6593	3.0000e-005	0.0000	0.6600
Total	0.0314	0.3475	0.4421	9.4000e-004	0.0221	4.2000e-003	0.0263	6.0600e-003	3.8600e-003	9.9200e-003	0.0000	84.2682	84.2682	6.3000e-004	0.0000	84.2815

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1477	0.9554	0.7156	1.1000e-003		0.0613	0.0613		0.0591	0.0591	0.0000	92.2737	92.2737	0.0194	0.0000	92.6803
Total	0.1477	0.9554	0.7156	1.1000e-003		0.0613	0.0613		0.0591	0.0591	0.0000	92.2737	92.2737	0.0194	0.0000	92.6803

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.0957	0.1739	2.5000e-004	6.7100e-003	1.3200e-003	8.0200e-003	1.9200e-003	1.2100e-003	3.1300e-003	0.0000	21.8726	21.8726	1.7000e-004	0.0000	21.8762
Worker	0.0140	0.0220	0.2078	4.7000e-004	0.0398	3.1000e-004	0.0401	0.0106	2.8000e-004	0.0109	0.0000	34.5350	34.5350	1.8000e-003	0.0000	34.5728
Total	0.0268	0.1177	0.3816	7.2000e-004	0.0465	1.6300e-003	0.0481	0.0125	1.4900e-003	0.0140	0.0000	56.4077	56.4077	1.9700e-003	0.0000	56.4489

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	0.0319	0.6016	0.6714	1.1000e-003		0.0365	0.0365		0.0365	0.0365	0.0000	92.2736	92.2736	0.0194	0.0000	92.6801
Total	0.0319	0.6016	0.6714	1.1000e-003		0.0365	0.0365		0.0365	0.0365	0.0000	92.2736	92.2736	0.0194	0.0000	92.6801

3.5 Building Construction - 2017**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.0957	0.1739	2.5000e-004	6.7100e-003	1.3200e-003	8.0200e-003	1.9200e-003	1.2100e-003	3.1300e-003	0.0000	21.8726	21.8726	1.7000e-004	0.0000	21.8762
Worker	0.0140	0.0220	0.2078	4.7000e-004	0.0398	3.1000e-004	0.0401	0.0106	2.8000e-004	0.0109	0.0000	34.5350	34.5350	1.8000e-003	0.0000	34.5728
Total	0.0268	0.1177	0.3816	7.2000e-004	0.0465	1.6300e-003	0.0481	0.0125	1.4900e-003	0.0140	0.0000	56.4077	56.4077	1.9700e-003	0.0000	56.4489

3.6 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0593	0.6049	0.4515	6.7000e-004		0.0367	0.0367		0.0338	0.0338	0.0000	61.1287	61.1287	0.0184	0.0000	61.5147
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0593	0.6049	0.4515	6.7000e-004		0.0367	0.0367		0.0338	0.0338	0.0000	61.1287	61.1287	0.0184	0.0000	61.5147

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0600e-003	3.2500e-003	0.0307	7.0000e-005	5.8700e-003	5.0000e-005	5.9200e-003	1.5600e-003	4.0000e-005	1.6000e-003	0.0000	5.1018	5.1018	2.7000e-004	0.0000	5.1073
Total	2.0600e-003	3.2500e-003	0.0307	7.0000e-005	5.8700e-003	5.0000e-005	5.9200e-003	1.5600e-003	4.0000e-005	1.6000e-003	0.0000	5.1018	5.1018	2.7000e-004	0.0000	5.1073

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	0.0157	0.3273	0.4851	6.7000e-004		0.0191	0.0191		0.0191	0.0191	0.0000	61.1286	61.1286	0.0184	0.0000	61.5147
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0157	0.3273	0.4851	6.7000e-004		0.0191	0.0191		0.0191	0.0191	0.0000	61.1286	61.1286	0.0184	0.0000	61.5147

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0600e-003	3.2500e-003	0.0307	7.0000e-005	5.8700e-003	5.0000e-005	5.9200e-003	1.5600e-003	4.0000e-005	1.6000e-003	0.0000	5.1018	5.1018	2.7000e-004	0.0000	5.1073
Total	2.0600e-003	3.2500e-003	0.0307	7.0000e-005	5.8700e-003	5.0000e-005	5.9200e-003	1.5600e-003	4.0000e-005	1.6000e-003	0.0000	5.1018	5.1018	2.7000e-004	0.0000	5.1073

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1093	0.0934	1.5000e-004		8.6700e-003	8.6700e-003		8.6700e-003	8.6700e-003	0.0000	12.7663	12.7663	1.3500e-003	0.0000	12.7946
Total	2.1288	0.1093	0.0934	1.5000e-004		8.6700e-003	8.6700e-003		8.6700e-003	8.6700e-003	0.0000	12.7663	12.7663	1.3500e-003	0.0000	12.7946

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8600e-003	4.5000e-003	0.0425	1.0000e-004	8.1300e-003	6.0000e-005	8.2000e-003	2.1600e-003	6.0000e-005	2.2200e-003	0.0000	7.0640	7.0640	3.7000e-004	0.0000	7.0717
Total	2.8600e-003	4.5000e-003	0.0425	1.0000e-004	8.1300e-003	6.0000e-005	8.2000e-003	2.1600e-003	6.0000e-005	2.2200e-003	0.0000	7.0640	7.0640	3.7000e-004	0.0000	7.0717

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	2.1122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9700e-003	0.0679	0.0916	1.5000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	12.7663	12.7663	1.3500e-003	0.0000	12.7946
Total	2.1151	0.0679	0.0916	1.5000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003	0.0000	12.7663	12.7663	1.3500e-003	0.0000	12.7946

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8600e-003	4.5000e-003	0.0425	1.0000e-004	8.1300e-003	6.0000e-005	8.2000e-003	2.1600e-003	6.0000e-005	2.2200e-003	0.0000	7.0640	7.0640	3.7000e-004	0.0000	7.0717
Total	2.8600e-003	4.5000e-003	0.0425	1.0000e-004	8.1300e-003	6.0000e-005	8.2000e-003	2.1600e-003	6.0000e-005	2.2200e-003	0.0000	7.0640	7.0640	3.7000e-004	0.0000	7.0717

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Improve Pedestrian Network

Unbundle Parking Cost

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8952	1.0261	6.1870	0.0101	0.7213	0.0130	0.7343	0.1935	0.0120	0.2055	0.0000	747.3399	747.3399	0.0355	0.0000	748.0857
Unmitigated	0.9611	1.3864	7.7937	0.0152	1.1168	0.0185	1.1353	0.2996	0.0170	0.3166	0.0000	1,121.5085	1,121.5085	0.0498	0.0000	1,122.5546

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	429.94	429.94	429.94	959,783	619,852
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,778.26	1,778.26	1,778.26	2,063,247	1,332,496
Total	2,208.20	2,208.20	2,208.20	3,023,031	1,952,347

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 High Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579415	0.062669	0.176431	0.113724	0.029579	0.004153	0.015740	0.004138	0.002638	0.003681	0.006622	0.000227	0.000983

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	176.1894	176.1894	0.0139	2.8700e-003	177.3712
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	200.2181	200.2181	0.0158	3.2600e-003	201.5611
NaturalGas Mitigated	0.0208	0.1841	0.1248	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	205.4099	205.4099	3.9400e-003	3.7700e-003	206.6600
NaturalGas Unmitigated	0.0225	0.1993	0.1331	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	222.7482	222.7482	4.2700e-003	4.0800e-003	224.1038

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					
High Turnover (Sit Down Restaurant)	2.37674e+006	0.0128	0.1165	0.0979	7.0000e-004		8.8500e-003	8.8500e-003		8.8500e-003	8.8500e-003	0.0000	126.8319	126.8319	2.4300e-003	2.3300e-003	127.6038
Condo/Townhouse High Rise	1.7974e+006	9.6900e-003	0.0828	0.0352	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	95.9163	95.9163	1.8400e-003	1.7600e-003	96.5000
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
Total		0.0225	0.1993	0.1331	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	222.7482	222.7482	4.2700e-003	4.0900e-003	224.1038

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High Turnover (Sit Down Restaurant)	2.28869e+006	0.0123	0.1122	0.0942	6.7000e-004		8.5300e-003	8.5300e-003		8.5300e-003	8.5300e-003	0.0000	122.1330	122.1330	2.3400e-003	2.2400e-003	122.8763
Condo/Townhouse High Rise	1.56055e+006	8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.2769	83.2769	1.6000e-003	1.5300e-003	83.7837
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
Total		0.0208	0.1841	0.1248	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	205.4099	205.4099	3.9400e-003	3.7700e-003	206.6600

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	315439	52.6652	4.1500e-003	8.6000e-004	53.0184
Enclosed Parking with Elevator	461016	76.9704	6.0600e-003	1.2500e-003	77.4867
High Turnover (Sit Down Restaurant)	422755	70.5825	5.5600e-003	1.1500e-003	71.0559
Total		200.2181	0.0158	3.2600e-003	201.5611

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	284610	47.5180	3.7400e-003	7.7000e-004	47.8367
Enclosed Parking with Elevator	375795	62.7421	4.9400e-003	1.0200e-003	63.1629
High Turnover (Sit Down Restaurant)	394885	65.9293	5.1900e-003	1.0700e-003	66.3716
Total		176.1894	0.0139	2.8600e-003	177.3712

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7804	7.4100e-003	0.6372	1.0000e-004		0.0150	0.0150		0.0150	0.0150	1.2112	2.8575	4.0687	3.1500e-003	1.0000e-004	4.1661
Unmitigated	0.7804	7.4100e-003	0.6372	1.0000e-004		0.0150	0.0150		0.0150	0.0150	1.2112	2.8575	4.0687	3.1500e-003	1.0000e-004	4.1661

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0574	9.8000e-004	0.0821	7.0000e-005		0.0120	0.0120		0.0120	0.0120	1.2112	1.9567	3.1679	2.2500e-003	1.0000e-004	3.2464
Landscaping	0.0172	6.4400e-003	0.5551	3.0000e-005		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	0.9008	0.9008	9.0000e-004	0.0000	0.9197
Total	0.7804	7.4200e-003	0.6372	1.0000e-004		0.0150	0.0150		0.0150	0.0150	1.2112	2.8575	4.0687	3.1500e-003	1.0000e-004	4.1661

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0951					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0574	9.8000e-004	0.0821	7.0000e-005		0.0120	0.0120		0.0120	0.0120	1.2112	1.9567	3.1679	2.2500e-003	1.0000e-004	3.2464
Landscaping	0.0172	6.4400e-003	0.5551	3.0000e-005		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	0.9008	0.9008	9.0000e-004	0.0000	0.9197
Total	0.7804	7.4200e-003	0.6372	1.0000e-004		0.0150	0.0150		0.0150	0.0150	1.2112	2.8575	4.0687	3.1500e-003	1.0000e-004	4.1661

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.7824	0.2636	6.3500e-003	19.2850
Unmitigated	12.9996	0.2962	7.1400e-003	21.4325

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	4.8214 / 3.03958	7.6615	0.1576	3.8100e-003	12.1518
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4.2434 / 0.270855	5.3381	0.1386	3.3300e-003	9.2806
Total		12.9996	0.2962	7.1400e-003	21.4325

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	4.29104 / 3.03958	7.0141	0.1402	3.3900e-003	11.0096
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.77663 / 0.270855	4.7683	0.1233	2.9600e-003	8.2754
Total		11.7824	0.2636	6.3500e-003	19.2850

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	40.6794	2.4041	0.0000	91.1651
Unmitigated	40.6794	2.4041	0.0000	91.1651

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	34.04	6.9098	0.4084	0.0000	15.4853
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	166.36	33.7696	1.9957	0.0000	75.6798
Total		40.6794	2.4041	0.0000	91.1651

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	34.04	6.9098	0.4084	0.0000	15.4853
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	166.36	33.7696	1.9957	0.0000	75.6798
Total		40.6794	2.4041	0.0000	91.1651

9.0 Operational Offroad

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

**Hillsdale Terraces- existing
San Mateo County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	20.70	1000sqft	0.48	20,700.00	0
General Office Building	5.80	1000sqft	0.13	5,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Energy Use - historical data

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	4.34	4.07
tblEnergyUse	T24E	5.42	5.01
tblEnergyUse	T24NG	22.58	19.28
tblProjectCharacteristics	OperationalYear	2014	2016

3.0 Operational Detail - Mobile

3.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2087	0.3722	2.0744	4.3200e-003	0.3231	5.3700e-003	0.3284	0.0864	4.9300e-003	0.0913		375.5905	375.5905	0.0165		375.9371
Unmitigated	0.2087	0.3722	2.0744	4.3200e-003	0.3231	5.3700e-003	0.3284	0.0864	4.9300e-003	0.0913		375.5905	375.5905	0.0165		375.9371

3.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	63.86	13.75	5.68	115,637	115,637
Parking Lot	0.00	0.00	0.00		
Total	63.86	13.75	5.68	115,637	115,637

3.3 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
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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579021	0.062765	0.176333	0.114336	0.029695	0.004181	0.015593	0.003984	0.002598	0.003702	0.006580	0.000230	0.000982

4.0 Energy Detail

Historical Energy Use: Y

4.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622
NaturalGas Unmitigated	3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622

4.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	322.416	3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.322416	3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622

5.0 Area Detail

5.1 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	0.5857	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003
Unmitigated	0.5857	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003

5.2 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	0.0184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7000e-004	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003
Total	0.5857	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7000e-004	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003
Total	0.5857	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003

Hillsdale Terraces- existing San Mateo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	20.70	1000sqft	0.48	20,700.00	0
General Office Building	5.80	1000sqft	0.13	5,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Energy Use - historical data

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	4.34	4.07
tblEnergyUse	T24E	5.42	5.01
tblEnergyUse	T24NG	22.58	19.28
tblProjectCharacteristics	OperationalYear	2014	2016

3.0 Operational Detail - Mobile

3.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.2219	0.4219	2.2934	4.1000e-003	0.3231	5.4000e-003	0.3285	0.0864	4.9600e-003	0.0913			356.6000	356.6000	0.0165		356.9468
Unmitigated	0.2219	0.4219	2.2934	4.1000e-003	0.3231	5.4000e-003	0.3285	0.0864	4.9600e-003	0.0913			356.6000	356.6000	0.0165		356.9468

3.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	63.86	13.75	5.68	115,637	115,637
Parking Lot	0.00	0.00	0.00		
Total	63.86	13.75	5.68	115,637	115,637

3.3 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579021	0.062765	0.176333	0.114336	0.029695	0.004181	0.015593	0.003984	0.002598	0.003702	0.006580	0.000230	0.000982

4.0 Energy Detail

Historical Energy Use: Y

4.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003			37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622
NaturalGas Unmitigated	3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003			37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622

4.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
General Office Building	322.416	3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003			37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003			37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
General Office Building	0.322416	3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003			37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.4800e-003	0.0316	0.0266	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003			37.9314	37.9314	7.3000e-004	7.0000e-004	38.1622

5.0 Area Detail

5.1 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	0.5857	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003
Unmitigated	0.5857	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003

5.2 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	0.0184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.5671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	2.7000e-004	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003
Total	0.5857	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.8000e-003	5.8000e-003	2.0000e-005		6.1400e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.7000e-004	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.8000e-003	5.8000e-003	2.0000e-005	6.1400e-003
Total	0.5857	3.0000e-005	2.7800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.8000e-003	5.8000e-003	2.0000e-005	6.1400e-003

**Hillsdale Terraces- existing
San Mateo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	20.70	1000sqft	0.48	20,700.00	0
General Office Building	5.80	1000sqft	0.13	5,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Energy Use - historical data

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	4.34	4.07
tblEnergyUse	T24E	5.42	5.01
tblEnergyUse	T24NG	22.58	19.28
tblProjectCharacteristics	OperationalYear	2014	2016

2.0 Emissions Summary

2.1 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	0.1069	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.7000e-004	4.7000e-004	0.0000	0.0000	5.0000e-004
Energy	6.3000e-004	5.7700e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	34.9987	34.9987	1.4200e-003	3.8000e-004	35.1475
Mobile	0.0284	0.0555	0.2945	5.7000e-004	0.0427	7.4000e-004	0.0435	0.0115	6.8000e-004	0.0121	0.0000	44.7161	44.7161	2.0600e-003	0.0000	44.7594
Waste						0.0000	0.0000		0.0000	0.0000	1.0941	0.0000	1.0941	0.0647	0.0000	2.4520
Water						0.0000	0.0000		0.0000	0.0000	0.3270	2.2660	2.5930	0.0337	8.1000e-004	3.5530
Total	0.1359	0.0613	0.2996	6.0000e-004	0.0427	1.1800e-003	0.0439	0.0115	1.1200e-003	0.0126	1.4212	81.9813	83.4025	0.1018	1.1900e-003	85.9125

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	0.1069	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.7000e-004	4.7000e-004	0.0000	0.0000	5.0000e-004
Energy	6.3000e-004	5.7700e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	34.9987	34.9987	1.4200e-003	3.8000e-004	35.1475
Mobile	0.0284	0.0555	0.2945	5.7000e-004	0.0427	7.4000e-004	0.0435	0.0115	6.8000e-004	0.0121	0.0000	44.7161	44.7161	2.0600e-003	0.0000	44.7594
Waste						0.0000	0.0000		0.0000	0.0000	1.0941	0.0000	1.0941	0.0647	0.0000	2.4520
Water						0.0000	0.0000		0.0000	0.0000	0.3270	2.2660	2.5930	0.0337	8.1000e-004	3.5525
Total	0.1359	0.0613	0.2996	6.0000e-004	0.0427	1.1800e-003	0.0439	0.0115	1.1200e-003	0.0126	1.4212	81.9813	83.4025	0.1018	1.1900e-003	85.9120

	ROG	NOx	CO	SO2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Operational Detail - Mobile

3.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0284	0.0555	0.2945	5.7000e-004	0.0427	7.4000e-004	0.0435	0.0115	6.8000e-004	0.0121	0.0000	44.7161	44.7161	2.0600e-003	0.0000	44.7594
Unmitigated	0.0284	0.0555	0.2945	5.7000e-004	0.0427	7.4000e-004	0.0435	0.0115	6.8000e-004	0.0121	0.0000	44.7161	44.7161	2.0600e-003	0.0000	44.7594

3.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	63.86	13.75	5.68	115,637	115,637
Parking Lot	0.00	0.00	0.00		
Total	63.86	13.75	5.68	115,637	115,637

3.3 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579021	0.062765	0.176333	0.114336	0.029695	0.004181	0.015593	0.003984	0.002598	0.003702	0.006580	0.000230	0.000982

4.0 Energy Detail

Historical Energy Use: Y

4.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	28.7188	28.7188	1.3000e-003	2.7000e-004	28.8293
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	28.7188	28.7188	1.3000e-003	2.7000e-004	28.8293
NaturalGas Mitigated	6.3000e-004	5.7700e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2800	6.2800	1.2000e-004	1.2000e-004	6.3182
NaturalGas Unmitigated	6.3000e-004	5.7700e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2800	6.2800	1.2000e-004	1.2000e-004	6.3182

4.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	117682	6.3000e-004	5.7700e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2800	6.2800	1.2000e-004	1.2000e-004	6.3182
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.3000e-004	5.7700e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2800	6.2800	1.2000e-004	1.2000e-004	6.3182

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	tons/yr										MT/yr					
General Office Building	117682	6.3000e-004	5.7700e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2800	6.2800	1.2000e-004	1.2000e-004	6.3182
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		6.3000e-004	5.7700e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2800	6.2800	1.2000e-004	1.2000e-004	6.3182

4.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	80504	23.4195	1.0600e-003	2.2000e-004	23.5097
Parking Lot	18216	5.2992	2.4000e-004	5.0000e-005	5.3196
Total		28.7188	1.3000e-003	2.7000e-004	28.8293

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	80504	23.4195	1.0600e-003	2.2000e-004	23.5097
Parking Lot	18216	5.2992	2.4000e-004	5.0000e-005	5.3196
Total		28.7188	1.3000e-003	2.7000e-004	28.8293

5.0 Area Detail

5.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1069	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.7000e-004	4.7000e-004	0.0000	0.0000	5.0000e-004
Unmitigated	0.1069	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.7000e-004	4.7000e-004	0.0000	0.0000	5.0000e-004

5.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1035					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.7000e-004	4.7000e-004	0.0000	0.0000	5.0000e-004
Total	0.1069	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.7000e-004	4.7000e-004	0.0000	0.0000	5.0000e-004

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	3.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1035					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.7000e-004	4.7000e-004	0.0000	0.0000	5.0000e-004
Total	0.1069	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.7000e-004	4.7000e-004	0.0000	0.0000	5.0000e-004

6.0 Water Detail

6.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.5930	0.0337	8.1000e-004	3.5525
Unmitigated	2.5930	0.0337	8.1000e-004	3.5530

6.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.03086 / 0.631815	2.5930	0.0337	8.1000e-004	3.5530
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.5930	0.0337	8.1000e-004	3.5530

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.03086 / 0.631815	2.5930	0.0337	8.1000e-004	3.5525
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.5930	0.0337	8.1000e-004	3.5525

7.0 Waste Detail

7.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	1.0941	0.0647	0.0000	2.4520
Mitigated	1.0941	0.0647	0.0000	2.4520

7.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	5.39	1.0941	0.0647	0.0000	2.4520
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.0941	0.0647	0.0000	2.4520

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	5.39	1.0941	0.0647	0.0000	2.4520
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.0941	0.0647	0.0000	2.4520