

Mission Bay Block 6 West - San Francisco Bay Area Air Basin, Annual

Mission Bay Block 6 West
San Francisco Bay Area Air Basin, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	30.00	Space	0.27	12,000.00	0
Apartments Mid Rise	152.00	Dwelling Unit	0.81	152,000.00	435

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2021
Utility Company	City and County of San Francisco				
CO2 Intensity (lb/MW hr)	76.28	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.00617

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E CO2 Intensity Factor from 2013.

Land Use - Lot acreage set equal to available square footage of lot.

Construction Phase - Based on project-specific construction schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Bore/drill rig added for pile-driving activities.

Off-road Equipment -

Grading - Total acres graded left as CalEEMod default of 1.5 acres.

- Architectural Coating -
- Woodstoves - No woodstoves or fireplaces.
- Energy Use -
- Mobile Land Use Mitigation -
- Trips and VMT -
- Vehicle Trips -
- Consumer Products - SF-specific EF
- Water And Wastewater -
- Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	436.00
tblConstructionPhase	NumDays	4.00	65.00
tblConstructionPhase	PhaseEndDate	4/9/2020	5/31/2021
tblConstructionPhase	PhaseEndDate	3/12/2020	5/3/2021
tblConstructionPhase	PhaseEndDate	6/6/2019	8/30/2019
tblConstructionPhase	PhaseEndDate	3/26/2020	5/17/2021
tblConstructionPhase	PhaseStartDate	3/27/2020	5/18/2021
tblConstructionPhase	PhaseStartDate	6/7/2019	9/1/2019
tblConstructionPhase	PhaseStartDate	3/13/2020	5/4/2021
tblConsumerProducts	ROG_EF	2.14E-05	1.5E-05
tblFireplaces	NumberGas	22.80	0.00
tblFireplaces	NumberWood	25.84	0.00
tblGrading	AcresOfGrading	24.38	1.50
tblGrading	MaterialExported	0.00	5,200.00
tblLandUse	LotAcreage	4.00	0.81
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.00617
tblWoodstoves	NumberCatalytic	3.04	0.00
tblWoodstoves	NumberNoncatalytic	3.04	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1787	1.5364	1.0502	2.5800e-003	0.2003	0.0681	0.2684	0.0949	0.0645	0.1594	0.0000	228.3033	228.3033	0.0394	0.0000	229.2879
2020	0.3246	2.2447	2.1628	4.6700e-003	0.1335	0.1064	0.2399	0.0359	0.1027	0.1386	0.0000	402.9424	402.9424	0.0498	0.0000	404.1883
2021	2.4843	0.7322	0.7502	1.6300e-003	0.0457	0.0328	0.0785	0.0123	0.0315	0.0438	0.0000	140.7670	140.7670	0.0178	0.0000	141.2125
Maximum	2.4843	2.2447	2.1628	4.6700e-003	0.2003	0.1064	0.2684	0.0949	0.1027	0.1594	0.0000	402.9424	402.9424	0.0498	0.0000	404.1883

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1787	1.5364	1.0502	2.5800e-003	0.2003	0.0681	0.2684	0.0949	0.0645	0.1594	0.0000	228.3031	228.3031	0.0394	0.0000	229.2877
2020	0.3246	2.2447	2.1628	4.6700e-003	0.1335	0.1064	0.2399	0.0359	0.1027	0.1386	0.0000	402.9421	402.9421	0.0498	0.0000	404.1880
2021	2.4843	0.7322	0.7502	1.6300e-003	0.0457	0.0328	0.0785	0.0123	0.0315	0.0438	0.0000	140.7669	140.7669	0.0178	0.0000	141.2123
Maximum	2.4843	2.2447	2.1628	4.6700e-003	0.2003	0.1064	0.2684	0.0949	0.1027	0.1594	0.0000	402.9421	402.9421	0.0498	0.0000	404.1880

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2019	8-31-2019	0.7848	0.7848
2	9-1-2019	11-30-2019	0.6946	0.6946
3	12-1-2019	2-29-2020	0.6588	0.6588
4	3-1-2020	5-31-2020	0.6443	0.6443
5	6-1-2020	8-31-2020	0.6432	0.6432
6	9-1-2020	11-30-2020	0.6385	0.6385
7	12-1-2020	2-28-2021	0.5979	0.5979
8	3-1-2021	5-31-2021	2.8457	2.8457
		Highest	2.8457	2.8457

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	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441	1.8441	1.7900e-003	0.0000	1.8888
Energy	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	93.1648	93.1648	9.8500e-003	3.1100e-003	94.3367
Mobile	0.2639	1.2753	2.9778	0.0101	0.8493	9.4300e-003	0.8587	0.2280	8.8400e-003	0.2368	0.0000	927.2731	927.2731	0.0353	0.0000	928.1558
Waste						0.0000	0.0000		0.0000	0.0000	14.1931	0.0000	14.1931	0.8388	0.0000	35.1629
Water						0.0000	0.0000		0.0000	0.0000	3.1419	2.6102	5.7521	0.3237	7.8300e-003	16.1781
Total	0.9604	1.3495	4.1352	0.0106	0.8493	0.0206	0.8699	0.2280	0.0200	0.2480	17.3350	1,024.8922	1,042.2272	1.2094	0.0109	1,075.7223

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	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441	1.8441	1.7900e-003	0.0000	1.8888
Energy	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	93.1648	93.1648	9.8500e-003	3.1100e-003	94.3367
Mobile	0.2333	1.0466	2.2716	7.0300e-003	0.5707	6.7000e-003	0.5774	0.1532	6.2800e-003	0.1595	0.0000	645.2399	645.2399	0.0272	0.0000	645.9208
Waste						0.0000	0.0000		0.0000	0.0000	14.1931	0.0000	14.1931	0.8388	0.0000	35.1629
Water						0.0000	0.0000		0.0000	0.0000	3.1419	2.6102	5.7521	0.3237	7.8300e-003	16.1781
Total	0.9298	1.1208	3.4290	7.4800e-003	0.5707	0.0179	0.5886	0.1532	0.0175	0.1707	17.3350	742.8590	760.1940	1.2014	0.0109	793.4873

	ROG	NOx	CO	SO2	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	3.19	16.95	17.08	29.17	32.80	13.25	32.34	32.80	12.79	31.18	0.00	27.52	27.06	0.67	0.00	26.24

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2019	8/30/2019	5	65	
2	Building Construction	Building Construction	9/1/2019	5/3/2021	5	436	
3	Paving	Paving	5/4/2021	5/17/2021	5	10	
4	Architectural Coating	Architectural Coating	5/18/2021	5/31/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.27

Residential Indoor: 307,800; Residential Outdoor: 102,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Bore/Drill Rigs	1	7.00	221	0.50
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	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	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	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
Grading	4	10.00	0.00	650.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	114.00	18.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2019

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					0.1479	0.0000	0.1479	0.0808	0.0000	0.0808	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0541	0.6262	0.2735	7.2000e-004		0.0269	0.0269		0.0248	0.0248	0.0000	65.0920	65.0920	0.0206	0.0000	65.6069
Total	0.0541	0.6262	0.2735	7.2000e-004	0.1479	0.0269	0.1748	0.0808	0.0248	0.1056	0.0000	65.0920	65.0920	0.0206	0.0000	65.6069

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	2.9700e-003	0.1018	0.0199	2.6000e-004	5.4900e-003	3.9000e-004	5.8800e-003	1.5100e-003	3.7000e-004	1.8800e-003	0.0000	25.1725	25.1725	1.3300e-003	0.0000	25.2057
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1800e-003	8.7000e-004	8.9000e-003	3.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.3230	2.3230	6.0000e-005	0.0000	2.3246
Total	4.1500e-003	0.1026	0.0288	2.9000e-004	8.0600e-003	4.1000e-004	8.4700e-003	2.1900e-003	3.9000e-004	2.5800e-003	0.0000	27.4955	27.4955	1.3900e-003	0.0000	27.5302

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Fugitive Dust					0.1479	0.0000	0.1479	0.0808	0.0000	0.0808	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0541	0.6261	0.2735	7.2000e-004		0.0269	0.0269		0.0248	0.0248	0.0000	65.0919	65.0919	0.0206	0.0000	65.6068
Total	0.0541	0.6261	0.2735	7.2000e-004	0.1479	0.0269	0.1748	0.0808	0.0248	0.1056	0.0000	65.0919	65.0919	0.0206	0.0000	65.6068

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	2.9700e-003	0.1018	0.0199	2.6000e-004	5.4900e-003	3.9000e-004	5.8800e-003	1.5100e-003	3.7000e-004	1.8800e-003	0.0000	25.1725	25.1725	1.3300e-003	0.0000	25.2057
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1800e-003	8.7000e-004	8.9000e-003	3.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.3230	2.3230	6.0000e-005	0.0000	2.3246
Total	4.1500e-003	0.1026	0.0288	2.9000e-004	8.0600e-003	4.1000e-004	8.4700e-003	2.1900e-003	3.9000e-004	2.5800e-003	0.0000	27.4955	27.4955	1.3900e-003	0.0000	27.5302

3.3 Building Construction - 2019

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	0.0988	0.6951	0.5867	9.6000e-004		0.0398	0.0398		0.0385	0.0385	0.0000	79.6363	79.6363	0.0153	0.0000	80.0190
Total	0.0988	0.6951	0.5867	9.6000e-004		0.0398	0.0398		0.0385	0.0385	0.0000	79.6363	79.6363	0.0153	0.0000	80.0190

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-003	0.0992	0.0254	2.1000e-004	5.1300e-003	6.8000e-004	5.8200e-003	1.4800e-003	6.5000e-004	2.1400e-003	0.0000	20.6340	20.6340	1.1400e-003	0.0000	20.6626
Worker	0.0180	0.0133	0.1358	3.9000e-004	0.0392	2.7000e-004	0.0395	0.0104	2.5000e-004	0.0107	0.0000	35.4455	35.4455	9.5000e-004	0.0000	35.4692
Total	0.0217	0.1125	0.1613	6.0000e-004	0.0443	9.5000e-004	0.0453	0.0119	9.0000e-004	0.0128	0.0000	56.0795	56.0795	2.0900e-003	0.0000	56.1318

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	0.0988	0.6951	0.5867	9.6000e-004		0.0398	0.0398		0.0385	0.0385	0.0000	79.6362	79.6362	0.0153	0.0000	80.0189
Total	0.0988	0.6951	0.5867	9.6000e-004		0.0398	0.0398		0.0385	0.0385	0.0000	79.6362	79.6362	0.0153	0.0000	80.0189

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-003	0.0992	0.0254	2.1000e-004	5.1300e-003	6.8000e-004	5.8200e-003	1.4800e-003	6.5000e-004	2.1400e-003	0.0000	20.6340	20.6340	1.1400e-003	0.0000	20.6626
Worker	0.0180	0.0133	0.1358	3.9000e-004	0.0392	2.7000e-004	0.0395	0.0104	2.5000e-004	0.0107	0.0000	35.4455	35.4455	9.5000e-004	0.0000	35.4692
Total	0.0217	0.1125	0.1613	6.0000e-004	0.0443	9.5000e-004	0.0453	0.0119	9.0000e-004	0.0128	0.0000	56.0795	56.0795	2.0900e-003	0.0000	56.1318

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2660	1.9373	1.7276	2.8900e-003		0.1043	0.1043		0.1007	0.1007	0.0000	237.8202	237.8202	0.0442	0.0000	238.9239
Total	0.2660	1.9373	1.7276	2.8900e-003		0.1043	0.1043		0.1007	0.1007	0.0000	237.8202	237.8202	0.0442	0.0000	238.9239

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	9.1200e-003	0.2721	0.0684	6.4000e-004	0.0155	1.3300e-003	0.0168	4.4700e-003	1.2700e-003	5.7400e-003	0.0000	61.7370	61.7370	3.1800e-003	0.0000	61.8166
Worker	0.0495	0.0354	0.3668	1.1400e-003	0.1180	7.9000e-004	0.1188	0.0314	7.3000e-004	0.0321	0.0000	103.3852	103.3852	2.5000e-003	0.0000	103.4478
Total	0.0586	0.3075	0.4352	1.7800e-003	0.1335	2.1200e-003	0.1356	0.0359	2.0000e-003	0.0379	0.0000	165.1222	165.1222	5.6800e-003	0.0000	165.2644

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	0.2660	1.9373	1.7276	2.8900e-003		0.1043	0.1043		0.1007	0.1007	0.0000	237.8199	237.8199	0.0442	0.0000	238.9236
Total	0.2660	1.9373	1.7276	2.8900e-003		0.1043	0.1043		0.1007	0.1007	0.0000	237.8199	237.8199	0.0442	0.0000	238.9236

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	9.1200e-003	0.2721	0.0684	6.4000e-004	0.0155	1.3300e-003	0.0168	4.4700e-003	1.2700e-003	5.7400e-003	0.0000	61.7370	61.7370	3.1800e-003	0.0000	61.8166
Worker	0.0495	0.0354	0.3668	1.1400e-003	0.1180	7.9000e-004	0.1188	0.0314	7.3000e-004	0.0321	0.0000	103.3852	103.3852	2.5000e-003	0.0000	103.4478
Total	0.0586	0.3075	0.4352	1.7800e-003	0.1335	2.1200e-003	0.1356	0.0359	2.0000e-003	0.0379	0.0000	165.1222	165.1222	5.6800e-003	0.0000	165.2644

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0788	0.5932	0.5611	9.6000e-004		0.0298	0.0298		0.0287	0.0287	0.0000	78.9732	78.9732	0.0141	0.0000	79.3257
Total	0.0788	0.5932	0.5611	9.6000e-004		0.0298	0.0298		0.0287	0.0287	0.0000	78.9732	78.9732	0.0141	0.0000	79.3257

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4900e-003	0.0818	0.0204	2.1000e-004	5.1300e-003	1.8000e-004	5.3100e-003	1.4900e-003	1.7000e-004	1.6600e-003	0.0000	20.3066	20.3066	1.0000e-003	0.0000	20.3316
Worker	0.0152	0.0105	0.1112	3.7000e-004	0.0392	2.6000e-004	0.0394	0.0104	2.4000e-004	0.0107	0.0000	33.1256	33.1256	7.4000e-004	0.0000	33.1442
Total	0.0177	0.0923	0.1316	5.8000e-004	0.0443	4.4000e-004	0.0448	0.0119	4.1000e-004	0.0123	0.0000	53.4323	53.4323	1.7400e-003	0.0000	53.4758

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	0.0788	0.5932	0.5611	9.6000e-004		0.0298	0.0298		0.0287	0.0287	0.0000	78.9731	78.9731	0.0141	0.0000	79.3256
Total	0.0788	0.5932	0.5611	9.6000e-004		0.0298	0.0298		0.0287	0.0287	0.0000	78.9731	78.9731	0.0141	0.0000	79.3256

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4900e-003	0.0818	0.0204	2.1000e-004	5.1300e-003	1.8000e-004	5.3100e-003	1.4900e-003	1.7000e-004	1.6600e-003	0.0000	20.3066	20.3066	1.0000e-003	0.0000	20.3316
Worker	0.0152	0.0105	0.1112	3.7000e-004	0.0392	2.6000e-004	0.0394	0.0104	2.4000e-004	0.0107	0.0000	33.1256	33.1256	7.4000e-004	0.0000	33.1442
Total	0.0177	0.0923	0.1316	5.8000e-004	0.0443	4.4000e-004	0.0448	0.0119	4.1000e-004	0.0123	0.0000	53.4323	53.4323	1.7400e-003	0.0000	53.4758

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291

Paving	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.2200e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291

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	2.0000e-004	1.4000e-004	1.4600e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4342	0.4342	1.0000e-005	0.0000	0.4344
Total	2.0000e-004	1.4000e-004	1.4600e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4342	0.4342	1.0000e-005	0.0000	0.4344

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	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.2200e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291

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	2.0000e-004	1.4000e-004	1.4600e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4342	0.4342	1.0000e-005	0.0000	0.4344
Total	2.0000e-004	1.4000e-004	1.4600e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4342	0.4342	1.0000e-005	0.0000	0.4344

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	2.3830	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.4000e-004	2.5800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7682	0.7682	2.0000e-005	0.0000	0.7686
Total	3.5000e-004	2.4000e-004	2.5800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7682	0.7682	2.0000e-005	0.0000	0.7686

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	2.3819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	2.3830	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.4000e-004	2.5800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7682	0.7682	2.0000e-005	0.0000	0.7686
Total	3.5000e-004	2.4000e-004	2.5800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7682	0.7682	2.0000e-005	0.0000	0.7686

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2333	1.0466	2.2716	7.0300e-003	0.5707	6.7000e-003	0.5774	0.1532	6.2800e-003	0.1595	0.0000	645.2399	645.2399	0.0272	0.0000	645.9208
Unmitigated	0.2639	1.2753	2.9778	0.0101	0.8493	9.4300e-003	0.8587	0.2280	8.8400e-003	0.2368	0.0000	927.2731	927.2731	0.0353	0.0000	928.1558

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,010.80	971.28	890.72	2,281,892	1,533,431
Parking Lot	0.00	0.00	0.00		
Total	1,010.80	971.28	890.72	2,281,892	1,533,431

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Parking Lot	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.3496	22.3496	8.5000e-003	1.8100e-003	23.1008
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.3496	22.3496	8.5000e-003	1.8100e-003	23.1008
NaturalGas Mitigated	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360
NaturalGas Unmitigated	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360

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					
Apartments Mid Rise	1.32703e+006	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360

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		7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360

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					
Apartments Mid Rise	1.32703e+006	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360
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		7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	641742	22.2043	8.4400e-003	1.8000e-003	22.9506
Parking Lot	4200	0.1453	6.0000e-005	1.0000e-005	0.1502
Total		22.3496	8.5000e-003	1.8100e-003	23.1008

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	641742	22.2043	8.4400e-003	1.8000e-003	22.9506
Parking Lot	4200	0.1453	6.0000e-005	1.0000e-005	0.1502
Total		22.3496	8.5000e-003	1.8100e-003	23.1008

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	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441	1.8441	1.7900e-003	0.0000	1.8888
Unmitigated	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441	1.8441	1.7900e-003	0.0000	1.8888

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
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SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0343	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441	1.8441	1.7900e-003	0.0000	1.8888
Total	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441	1.8441	1.7900e-003	0.0000	1.8888

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	0.2382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0343	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441	1.8441	1.7900e-003	0.0000	1.8888
Total	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441	1.8441	1.7900e-003	0.0000	1.8888

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.7521	0.3237	7.8300e-003	16.1781
Unmitigated	5.7521	0.3237	7.8300e-003	16.1781

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.90341 / 6.24346	5.7521	0.3237	7.8300e-003	16.1781
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.7521	0.3237	7.8300e-003	16.1781

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.90341 / 6.24346	5.7521	0.3237	7.8300e-003	16.1781
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

Total		5.7521	0.3237	7.8300e-003	16.1781
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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.1931	0.8388	0.0000	35.1629
Unmitigated	14.1931	0.8388	0.0000	35.1629

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	69.92	14.1931	0.8388	0.0000	35.1629
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		14.1931	0.8388	0.0000	35.1629

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	69.92	14.1931	0.8388	0.0000	35.1629
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		14.1931	0.8388	0.0000	35.1629

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Averaging of Construction Emissions

UNMITIGATED

Annual Emission from CalEEMod:

ROG	Nox	PM10	PM2.5
2.9876	4.5133	0.2073	0.1987

tons/year

Days of Construction = (from CalEEMod input file)
Days

Total = 521

Average daily Emissions =

ROG	Nox	PM10	PM2.5
11.47	17.33	0.80	0.76

pound/day

Mission Bay Block 6 West - San Francisco Bay Area Air Basin, Annual

Mission Bay Block 6 West

San Francisco Bay Area Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Area
Parking Lot	30.00	Space	0.27
Apartments Mid Rise	152.00	Dwelling Unit	0.81

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	6
Climate Zone	5			Operational Year	2
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	427	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E CO2 Intensity Factor from 2013.

Land Use - Lot acreage set equal to available square footage of lot.

Construction Phase - Based on project-specific construction schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Bore/drill rig added for pile-driving activities.

Off-road Equipment -

Grading - Total acres graded left as CalEEMod default of 1.5 acres.

Architectural Coating -

Woodstoves - No woodstoves or fireplaces.

Energy Use -

Mobile Land Use Mitigation -

Trips and VMT -

Vehicle Trips -

Consumer Products - SF-specific EF

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	Ne
tblConstructionPhase	NumDays	200.00	4
tblConstructionPhase	NumDays	4.00	t
tblConstructionPhase	PhaseEndDate	4/9/2020	5/3
tblConstructionPhase	PhaseEndDate	3/12/2020	5/
tblConstructionPhase	PhaseEndDate	6/6/2019	8/3
tblConstructionPhase	PhaseEndDate	3/26/2020	5/1
tblConstructionPhase	PhaseStartDate	3/27/2020	5/1
tblConstructionPhase	PhaseStartDate	6/7/2019	9/
tblConstructionPhase	PhaseStartDate	3/13/2020	5/
tblConsumerProducts	ROG_EF	2.14E-05	1.
tblFireplaces	NumberGas	22.80	
tblFireplaces	NumberWood	25.84	
tblGrading	AcresOfGrading	24.38	
tblGrading	MaterialExported	0.00	5,
tblLandUse	LotAcreage	4.00	
tblOffRoadEquipment	OffRoadEquipmentType		Bore
tblProjectCharacteristics	CO2IntensityFactor	641.35	
tblWoodstoves	NumberCatalytic	3.04	
tblWoodstoves	NumberNoncatalytic	3.04	

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Year	tons/yr											
2019	0.1787	1.5364	1.0502	2.5800e-003	0.2003	0.0681	0.2684	0.0949	0.0645	0.1594	0.0000	228.303
2020	0.3246	2.2447	2.1628	4.6700e-003	0.1335	0.1064	0.2399	0.0359	0.1027	0.1386	0.0000	402.942
2021	2.4843	0.7322	0.7502	1.6300e-003	0.0457	0.0328	0.0785	0.0123	0.0315	0.0438	0.0000	140.767
Maximum	2.4843	2.2447	2.1628	4.6700e-003	0.2003	0.1064	0.2684	0.0949	0.1027	0.1594	0.0000	402.942

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Year	tons/yr											
2019	0.1787	1.5364	1.0502	2.5800e-003	0.2003	0.0681	0.2684	0.0949	0.0645	0.1594	0.0000	228.303
2020	0.3246	2.2447	2.1628	4.6700e-003	0.1335	0.1064	0.2399	0.0359	0.1027	0.1386	0.0000	402.942
2021	2.4843	0.7322	0.7502	1.6300e-003	0.0457	0.0328	0.0785	0.0123	0.0315	0.0438	0.0000	140.766
Maximum	2.4843	2.2447	2.1628	4.6700e-003	0.2003	0.1064	0.2684	0.0949	0.1027	0.1594	0.0000	402.942

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2019	8-31-2019	0.7848	0.7848
2	9-1-2019	11-30-2019	0.6946	0.6946
3	12-1-2019	2-29-2020	0.6588	0.6588
4	3-1-2020	5-31-2020	0.6443	0.6443
5	6-1-2020	8-31-2020	0.6432	0.6432
6	9-1-2020	11-30-2020	0.6385	0.6385
7	12-1-2020	2-28-2021	0.5979	0.5979
8	3-1-2021	5-31-2021	2.8457	2.8457
		Highest	2.8457	2.8457

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
Category	tons/yr											
Area	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441
Energy	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	195.922
Mobile	0.2639	1.2753	2.9778	0.0101	0.8493	9.4300e-003	0.8587	0.2280	8.8400e-003	0.2368	0.0000	927.273
Waste						0.0000	0.0000		0.0000	0.0000	14.1931	0.0000

Water						0.0000	0.0000		0.0000	0.0000	3.1419	14.611
Total	0.9604	1.3495	4.1352	0.0106	0.8493	0.0206	0.8699	0.2280	0.0200	0.2480	17.3350	1,139.65

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
Category	tons/yr											
Area	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441
Energy	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	195.923
Mobile	0.2333	1.0466	2.2716	7.0300e-003	0.5707	6.7000e-003	0.5774	0.1532	6.2800e-003	0.1595	0.0000	645.239
Waste						0.0000	0.0000		0.0000	0.0000	14.1931	0.0000
Water						0.0000	0.0000		0.0000	0.0000	3.1419	14.611
Total	0.9298	1.1208	3.4290	7.4800e-003	0.5707	0.0179	0.5886	0.1532	0.0175	0.1707	17.3350	857.619

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Percent Reduction	3.19	16.95	17.08	29.17	32.80	13.25	32.34	32.80	12.79	31.18	0.00	

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
1	Grading	Grading	6/1/2019	8/30/2019	5	65
2	Building Construction	Building Construction	9/1/2019	5/3/2021	5	436
3	Paving	Paving	5/4/2021	5/17/2021	5	10
4	Architectural Coating	Architectural Coating	5/18/2021	5/31/2021	5	10

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.27

Residential Indoor: 307,800; Residential Outdoor: 102,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power
Grading	Bore/Drill Rigs	1	7.00	221
Grading	Graders	1	6.00	187
Grading	Rubber Tired Dozers	1	6.00	247
Grading	Tractors/Loaders/Backhoes	1	7.00	97
Building Construction	Cranes	1	6.00	231
Building Construction	Forklifts	1	6.00	89
Building Construction	Generator Sets	1	8.00	84
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97
Building Construction	Welders	3	8.00	46
Paving	Cement and Mortar Mixers	1	6.00	9
Paving	Pavers	1	6.00	130
Paving	Paving Equipment	1	8.00	132
Paving	Rollers	1	7.00	80
Paving	Tractors/Loaders/Backhoes	1	8.00	97
Architectural Coating	Air Compressors	1	6.00	78

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 C
Grading	4	10.00	0.00	650.00	10.80	7.30	20.00	LD_Mix
Building Construction	7	114.00	18.00	0.00	10.80	7.30	20.00	LD_Mix
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix
Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix

3.1 Mitigation Measures Construction

3.2 Grading - 2019

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- CC
Category	tons/yr											
Fugitive Dust					0.1479	0.0000	0.1479	0.0808	0.0000	0.0808	0.0000	0.0000
Off-Road	0.0541	0.6262	0.2735	7.2000e-004		0.0269	0.0269		0.0248	0.0248	0.0000	65.0920
Total	0.0541	0.6262	0.2735	7.2000e-004	0.1479	0.0269	0.1748	0.0808	0.0248	0.1056	0.0000	65.0920

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
Category	tons/yr											
Hauling	2.9700e-003	0.1018	0.0199	2.6000e-004	5.4900e-003	3.9000e-004	5.8800e-003	1.5100e-003	3.7000e-004	1.8800e-003	0.0000	25.1725
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
Worker	1.1800e-003	8.7000e-004	8.9000e-003	3.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.3230
Total	4.1500e-003	0.1026	0.0288	2.9000e-004	8.0600e-003	4.1000e-004	8.4700e-003	2.1900e-003	3.9000e-004	2.5800e-003	0.0000	27.4955

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
Category	tons/yr											
Fugitive Dust					0.1479	0.0000	0.1479	0.0808	0.0000	0.0808	0.0000	0.0000
Off-Road	0.0541	0.6261	0.2735	7.2000e-004		0.0269	0.0269		0.0248	0.0248	0.0000	65.0915
Total	0.0541	0.6261	0.2735	7.2000e-004	0.1479	0.0269	0.1748	0.0808	0.0248	0.1056	0.0000	65.0915

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
Category	tons/yr											
Hauling	2.9700e-003	0.1018	0.0199	2.6000e-004	5.4900e-003	3.9000e-004	5.8800e-003	1.5100e-003	3.7000e-004	1.8800e-003	0.0000	25.1725
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
Worker	1.1800e-003	8.7000e-004	8.9000e-003	3.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.3230
Total	4.1500e-003	0.1026	0.0288	2.9000e-004	8.0600e-003	4.1000e-004	8.4700e-003	2.1900e-003	3.9000e-004	2.5800e-003	0.0000	27.4955

3.3 Building Construction - 2019

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
Category	tons/yr											
Off-Road	0.0988	0.6951	0.5867	9.6000e-004		0.0398	0.0398		0.0385	0.0385	0.0000	79.6362
Total	0.0988	0.6951	0.5867	9.6000e-004		0.0398	0.0398		0.0385	0.0385	0.0000	79.6362

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
Category	tons/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
Vendor	3.7000e-003	0.0992	0.0254	2.1000e-004	5.1300e-003	6.8000e-004	5.8200e-003	1.4800e-003	6.5000e-004	2.1400e-003	0.0000	20.6341
Worker	0.0180	0.0133	0.1358	3.9000e-004	0.0392	2.7000e-004	0.0395	0.0104	2.5000e-004	0.0107	0.0000	35.4455
Total	0.0217	0.1125	0.1613	6.0000e-004	0.0443	9.5000e-004	0.0453	0.0119	9.0000e-004	0.0128	0.0000	56.0795

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
Category	tons/yr											
Off-Road	0.0988	0.6951	0.5867	9.6000e-004		0.0398	0.0398		0.0385	0.0385	0.0000	79.6362
Total	0.0988	0.6951	0.5867	9.6000e-004		0.0398	0.0398		0.0385	0.0385	0.0000	79.6362

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
Category	tons/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
Vendor	3.7000e-003	0.0992	0.0254	2.1000e-004	5.1300e-003	6.8000e-004	5.8200e-003	1.4800e-003	6.5000e-004	2.1400e-003	0.0000	20.6340
Worker	0.0180	0.0133	0.1358	3.9000e-004	0.0392	2.7000e-004	0.0395	0.0104	2.5000e-004	0.0107	0.0000	35.4450
Total	0.0217	0.1125	0.1613	6.0000e-004	0.0443	9.5000e-004	0.0453	0.0119	9.0000e-004	0.0128	0.0000	56.0790

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Category	tons/yr											
Off-Road	0.2660	1.9373	1.7276	2.8900e-003		0.1043	0.1043		0.1007	0.1007	0.0000	237.8200
Total	0.2660	1.9373	1.7276	2.8900e-003		0.1043	0.1043		0.1007	0.1007	0.0000	237.8200

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
Category	tons/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
Vendor	9.1200e-003	0.2721	0.0684	6.4000e-004	0.0155	1.3300e-003	0.0168	4.4700e-003	1.2700e-003	5.7400e-003	0.0000	61.7370
Worker	0.0495	0.0354	0.3668	1.1400e-003	0.1180	7.9000e-004	0.1188	0.0314	7.3000e-004	0.0321	0.0000	103.3850
Total	0.0586	0.3075	0.4352	1.7800e-003	0.1335	2.1200e-003	0.1356	0.0359	2.0000e-003	0.0379	0.0000	165.1220

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
Category	tons/yr											
Off-Road	0.2660	1.9373	1.7276	2.8900e-003		0.1043	0.1043		0.1007	0.1007	0.0000	237.819
Total	0.2660	1.9373	1.7276	2.8900e-003		0.1043	0.1043		0.1007	0.1007	0.0000	237.819

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
Category	tons/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
Vendor	9.1200e-003	0.2721	0.0684	6.4000e-004	0.0155	1.3300e-003	0.0168	4.4700e-003	1.2700e-003	5.7400e-003	0.0000	61.737
Worker	0.0495	0.0354	0.3668	1.1400e-003	0.1180	7.9000e-004	0.1188	0.0314	7.3000e-004	0.0321	0.0000	103.385
Total	0.0586	0.3075	0.4352	1.7800e-003	0.1335	2.1200e-003	0.1356	0.0359	2.0000e-003	0.0379	0.0000	165.122

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Category	tons/yr											
Off-Road	0.0788	0.5932	0.5611	9.6000e-004		0.0298	0.0298		0.0287	0.0287	0.0000	78.973
Total	0.0788	0.5932	0.5611	9.6000e-004		0.0298	0.0298		0.0287	0.0287	0.0000	78.973

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
Category	tons/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
Vendor	2.4900e-003	0.0818	0.0204	2.1000e-004	5.1300e-003	1.8000e-004	5.3100e-003	1.4900e-003	1.7000e-004	1.6600e-003	0.0000	20.3060
Worker	0.0152	0.0105	0.1112	3.7000e-004	0.0392	2.6000e-004	0.0394	0.0104	2.4000e-004	0.0107	0.0000	33.1250
Total	0.0177	0.0923	0.1316	5.8000e-004	0.0443	4.4000e-004	0.0448	0.0119	4.1000e-004	0.0123	0.0000	53.4320

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
Category	tons/yr											
Off-Road	0.0788	0.5932	0.5611	9.6000e-004		0.0298	0.0298		0.0287	0.0287	0.0000	78.9730
Total	0.0788	0.5932	0.5611	9.6000e-004		0.0298	0.0298		0.0287	0.0287	0.0000	78.9730

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
Category	tons/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
Vendor	2.4900e-003	0.0818	0.0204	2.1000e-004	5.1300e-003	1.8000e-004	5.3100e-003	1.4900e-003	1.7000e-004	1.6600e-003	0.0000	20.3060
Worker	0.0152	0.0105	0.1112	3.7000e-004	0.0392	2.6000e-004	0.0394	0.0104	2.4000e-004	0.0107	0.0000	33.1250
Total	0.0177	0.0923	0.1316	5.8000e-004	0.0443	4.4000e-004	0.0448	0.0119	4.1000e-004	0.0123	0.0000	53.4320

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Category	tons/yr											
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825
Paving	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Total	4.2200e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825

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
Category	tons/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
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
Worker	2.0000e-004	1.4000e-004	1.4600e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4342
Total	2.0000e-004	1.4000e-004	1.4600e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4342

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
Category	tons/yr											
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825
Paving	3.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Total	4.2200e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825

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
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Category	tons/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
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
Worker	2.0000e-004	1.4000e-004	1.4600e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4342
Total	2.0000e-004	1.4000e-004	1.4600e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4342

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Category	tons/yr											
Archit. Coating	2.3819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766
Total	2.3830	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766

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
Category	tons/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
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
Worker	3.5000e-004	2.4000e-004	2.5800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7682
Total	3.5000e-004	2.4000e-004	2.5800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7682

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
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Category	tons/yr											
Archit. Coating	2.3819					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766
Total	2.3830	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766

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
Category	tons/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
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
Worker	3.5000e-004	2.4000e-004	2.5800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7682
Total	3.5000e-004	2.4000e-004	2.5800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7682

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Category	tons/yr											
Mitigated	0.2333	1.0466	2.2716	7.0300e-003	0.5707	6.7000e-003	0.5774	0.1532	6.2800e-003	0.1595	0.0000	645.239
Unmitigated	0.2639	1.2753	2.9778	0.0101	0.8493	9.4300e-003	0.8587	0.2280	8.8400e-003	0.2368	0.0000	927.273

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated
	Weekday	Saturday	Sunday	Annual VMT
Apartments Mid Rise	1,010.80	971.28	890.72	2,281,892
Parking Lot	0.00	0.00	0.00	
Total	1,010.80	971.28	890.72	2,281,892

4.3 Trip Type Information

Land Use	Miles			Trip %			Primary	D
	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		
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS
Apartments Mid Rise	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581
Parking Lot	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
Category	tons/yr											
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	125.108
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	125.108
NaturalGas Mitigated	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.815
NaturalGas Unmitigated	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	70.815

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
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Land Use	kBTU/yr	tons/yr										
Apartments Mid Rise	1.32703e+006	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000
Total		7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000

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
Land Use	kBTU/yr	tons/yr										
Apartments Mid Rise	1.32703e+006	7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000
Total		7.1600e-003	0.0612	0.0260	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	641742	124.2952	8.4400e-003	1.7500e-003	125.0267
Parking Lot	4200	0.8135	6.0000e-005	1.0000e-005	0.8183
Total		125.1087	8.5000e-003	1.7600e-003	125.8450

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	641742	124.2952	8.4400e-003	1.7500e-003	125.0267

Parking Lot	4200	0.8135	6.0000e-005	1.0000e-005	0.8183
Total		125.1087	8.5000e-003	1.7600e-003	125.8450

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
Category	tons/yr											
Mitigated	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441
Unmitigated	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441

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
SubCategory	tons/yr											
Architectural Coating	0.2382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Landscaping	0.0343	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441
Total	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2
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SubCategory	tons/yr											
Architectural Coating	0.2382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Landscaping	0.0343	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441
Total	0.6894	0.0131	1.1314	6.0000e-005		6.2400e-003	6.2400e-003		6.2400e-003	6.2400e-003	0.0000	1.8441

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.7533	0.3237	7.8300e-003	28.1775
Unmitigated	17.7533	0.3237	7.8300e-003	28.1775

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.90341 / 6.24346	17.7533	0.3237	7.8300e-003	28.1775
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		17.7533	0.3237	7.8300e-003	28.1775

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	9.90341 / 6.24346	17.7533	0.3237	7.8300e-003	28.1775
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		17.7533	0.3237	7.8300e-003	28.1775

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.1931	0.8388	0.0000	35.1629
Unmitigated	14.1931	0.8388	0.0000	35.1629

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	69.92	14.1931	0.8388	0.0000	35.1629
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		14.1931	0.8388	0.0000	35.1629

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	69.92	14.1931	0.8388	0.0000	35.1629
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		14.1931	0.8388	0.0000	35.1629

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power
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Boilers

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

Equipment Type	Number
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11.0 Vegetation

I

age	Floor Surface Area	Population
	12,000.00	0
	152,000.00	435

4

021

w Value
136.00
65.00
31/2021
3/2021
30/2019
17/2021
18/2021
1/2019
4/2021
.5E-05
0.00
0.00
1.50
200.00
0.81
/Drill Rigs
427
0.00
0.00

CO2	Total CO2	CH4	N2O	CO2e
MT/yr				
2013	228.3033	0.0394	0.0000	229.2879
2014	402.9424	0.0498	0.0000	404.1883
2017	140.7670	0.0178	0.0000	141.2125
2014	402.9424	0.0498	0.0000	404.1883

4	17.7533	0.3237	7.8300e-003	28.1775
52	1,156.9875	1.2094	0.0109	1,190.4660

CO2	Total CO2	CH4	N2O	CO2e
MT/yr				
1	1.8441	1.7900e-003	0.0000	1.8888
38	195.9238	9.8500e-003	3.0600e-003	197.0809
9	645.2399	0.0272	0.0000	645.9208
)	14.1931	0.8388	0.0000	35.1629
4	17.7533	0.3237	7.8300e-003	28.1775
12	874.9543	1.2014	0.0109	908.2310

bio-CO2	Total CO2	CH4	N2O	CO2e
24.75	24.38	0.67	0.00	23.71

Phase Description

door: 0; Striped Parking Area:

Load Factor
0.50
0.41
0.40
0.37
0.29
0.20
0.74
0.37
0.45
0.56
0.42
0.36
0.38
0.37
0.48

er Vehicle lass	Vendor Vehicle Class	Hauling Vehicle Class
	HDT_Mix	HHDT
	HDT_Mix	HHDT
	HDT_Mix	HHDT
	HDT_Mix	HHDT

02	Total CO2	CH4	N2O	CO2e
MT/yr				
	0.0000	0.0000	0.0000	0.0000
0	65.0920	0.0206	0.0000	65.6069
0	65.0920	0.0206	0.0000	65.6069

02	Total CO2	CH4	N2O	CO2e
MT/yr				
5	25.1725	1.3300e-003	0.0000	25.2057
1	0.0000	0.0000	0.0000	0.0000
1	2.3230	6.0000e-005	0.0000	2.3246
5	27.4955	1.3900e-003	0.0000	27.5302

02	Total CO2	CH4	N2O	CO2e
MT/yr				
1	0.0000	0.0000	0.0000	0.0000
9	65.0919	0.0206	0.0000	65.6068
9	65.0919	0.0206	0.0000	65.6068

02	Total CO2	CH4	N2O	CO2e
MT/yr				
5	25.1725	1.3300e-003	0.0000	25.2057
1	0.0000	0.0000	0.0000	0.0000
1	2.3230	6.0000e-005	0.0000	2.3246
5	27.4955	1.3900e-003	0.0000	27.5302

02	Total CO2	CH4	N2O	CO2e
MT/yr				
3	79.6363	0.0153	0.0000	80.0190
3	79.6363	0.0153	0.0000	80.0190

02	Total CO2	CH4	N2O	CO2e
MT/yr				
1	0.0000	0.0000	0.0000	0.0000
0	20.6340	1.1400e-003	0.0000	20.6626
5	35.4455	9.5000e-004	0.0000	35.4692
5	56.0795	2.0900e-003	0.0000	56.1318

02	Total CO2	CH4	N2O	CO2e
MT/yr				
2	79.6362	0.0153	0.0000	80.0189
2	79.6362	0.0153	0.0000	80.0189

02	Total CO2	CH4	N2O	CO2e
MT/yr				
1	0.0000	0.0000	0.0000	0.0000
0	20.6340	1.1400e-003	0.0000	20.6626
5	35.4455	9.5000e-004	0.0000	35.4692
5	56.0795	2.0900e-003	0.0000	56.1318

02	Total CO2	CH4	N2O	CO2e
MT/yr				
2	237.8202	0.0442	0.0000	238.9239
2	237.8202	0.0442	0.0000	238.9239

02	Total CO2	CH4	N2O	CO2e
MT/yr				
1	0.0000	0.0000	0.0000	0.0000
0	61.7370	3.1800e-003	0.0000	61.8166
2	103.3852	2.5000e-003	0.0000	103.4478
2	165.1222	5.6800e-003	0.0000	165.2644

02	Total CO2	CH4	N2O	CO2e
MT/yr				
9	237.8199	0.0442	0.0000	238.9236
9	237.8199	0.0442	0.0000	238.9236

02	Total CO2	CH4	N2O	CO2e
MT/yr				
	0.0000	0.0000	0.0000	0.0000
0	61.7370	3.1800e-003	0.0000	61.8166
2	103.3852	2.5000e-003	0.0000	103.4478
2	165.1222	5.6800e-003	0.0000	165.2644

02	Total CO2	CH4	N2O	CO2e
MT/yr				
2	78.9732	0.0141	0.0000	79.3257
2	78.9732	0.0141	0.0000	79.3257

02	Total CO2	CH4	N2O	CO2e
MT/yr				
1	0.0000	0.0000	0.0000	0.0000
5	20.3066	1.0000e-003	0.0000	20.3316
5	33.1256	7.4000e-004	0.0000	33.1442
3	53.4323	1.7400e-003	0.0000	53.4758

02	Total CO2	CH4	N2O	CO2e
MT/yr				
1	78.9731	0.0141	0.0000	79.3256
1	78.9731	0.0141	0.0000	79.3256

02	Total CO2	CH4	N2O	CO2e
MT/yr				
1	0.0000	0.0000	0.0000	0.0000
5	20.3066	1.0000e-003	0.0000	20.3316
5	33.1256	7.4000e-004	0.0000	33.1442
3	53.4323	1.7400e-003	0.0000	53.4758

02	Total CO2	CH4	N2O	CO2e
MT/yr				
	5.8825	1.8600e-003	0.0000	5.9291
	0.0000	0.0000	0.0000	0.0000
	5.8825	1.8600e-003	0.0000	5.9291

02	Total CO2	CH4	N2O	CO2e
MT/yr				
	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000
	0.4342	1.0000e-005	0.0000	0.4344
	0.4342	1.0000e-005	0.0000	0.4344

02	Total CO2	CH4	N2O	CO2e
MT/yr				
	5.8825	1.8600e-003	0.0000	5.9291
	0.0000	0.0000	0.0000	0.0000
	5.8825	1.8600e-003	0.0000	5.9291

02	Total CO2	CH4	N2O	CO2e
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MT/yr			
0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000
0.4342	1.0000e-005	0.0000	0.4344
0.4342	1.0000e-005	0.0000	0.4344

02	Total CO2	CH4	N2O	CO2e
MT/yr				
0.0000	0.0000	0.0000	0.0000	
1.2766	9.0000e-005	0.0000	1.2788	
1.2766	9.0000e-005	0.0000	1.2788	

02	Total CO2	CH4	N2O	CO2e
MT/yr				
0.0000	0.0000	0.0000	0.0000	
0.0000	0.0000	0.0000	0.0000	
0.7682	2.0000e-005	0.0000	0.7686	
0.7682	2.0000e-005	0.0000	0.7686	

02	Total CO2	CH4	N2O	CO2e

MT/yr			
	0.0000	0.0000	0.0000
	1.2766	9.0000e-005	1.2788
	1.2766	9.0000e-005	1.2788

02	Total CO2	CH4	N2O	CO2e
MT/yr				
	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000
	0.7682	2.0000e-005	0.0000	0.7686
	0.7682	2.0000e-005	0.0000	0.7686

02	Total CO2	CH4	N2O	CO2e
MT/yr				
09	645.2399	0.0272	0.0000	645.9208
11	927.2731	0.0353	0.0000	928.1558

Mitigated
Annual VMT
1,533,431
1,533,431

Trip Purpose %	
Diverted	Pass-by
11	3
0	0

UBUS	MCY	SBUS	MH
0.002349	0.005904	0.000881	0.000789
0.002349	0.005904	0.000881	0.000789

02	Total CO2	CH4	N2O	CO2e
MT/yr				
7	125.1087	8.5000e-003	1.7600e-003	125.8450
7	125.1087	8.5000e-003	1.7600e-003	125.8450
1	70.8151	1.3600e-003	1.3000e-003	71.2360
1	70.8151	1.3600e-003	1.3000e-003	71.2360

2	NBio- CO2	Total CO2	CH4	N2O	CO2e

MT/yr				
70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360
0.0000	0.0000	0.0000	0.0000	0.0000
70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360

2	NBio- CO2	Total CO2	CH4	N2O	CO2e
MT/yr					
70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360	
0.0000	0.0000	0.0000	0.0000	0.0000	
70.8151	70.8151	1.3600e-003	1.3000e-003	71.2360	

02	Total CO2	CH4	N2O	CO2e
MT/yr				
	1.8441	1.7900e-003	0.0000	1.8888
	1.8441	1.7900e-003	0.0000	1.8888

02	Total CO2	CH4	N2O	CO2e
MT/yr				
)	0.0000	0.0000	0.0000	0.0000
)	0.0000	0.0000	0.0000	0.0000
)	0.0000	0.0000	0.0000	0.0000
	1.8441	1.7900e-003	0.0000	1.8888
	1.8441	1.7900e-003	0.0000	1.8888

02	Total CO2	CH4	N2O	CO2e

MT/yr				
)	0.0000	0.0000	0.0000	0.0000
)	0.0000	0.0000	0.0000	0.0000
)	0.0000	0.0000	0.0000	0.0000
)	1.8441	1.7900e-003	0.0000	1.8888
)	1.8441	1.7900e-003	0.0000	1.8888

Load Factor	Fuel Type
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Load Factor	Fuel Type
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Fuel Type
