

180 Jones Street - San Francisco County, Annual

180 Jones Street
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	70.00	Dwelling Unit	0.10	37,993.00	200

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	4.6	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2030 RPS adjustment

Land Use - 0.1 acre lot (4,370 sf) - total GFA = 37,993

Construction Phase - 19 month construction. start sept 2021 - end april 2023. extended arch coating and grading

Grading - 600 cubic yards export

Vehicle Trips - ITE Land Use 221 - 5.44 ADT per unit

Area Coating - BAAQMD Rule 3, Architectural Coating

Construction Off-road Equipment Mitigation -

Energy Use -

Water And Wastewater - 20 percent reduction per CalGreen

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Parking	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblConstructionPhase	NumDays	5.00	140.00
tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	2.00	10.00
tblGrading	MaterialExported	0.00	600.00
tblLandUse	LandUseSquareFeet	70,000.00	37,993.00
tblLandUse	LotAcreage	1.84	0.10
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	WD_TR	6.65	5.44
tblWater	IndoorWaterUseRate	4,560,781.79	3,648,625.43

2.0 Emissions Summary

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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					
2021	0.0367	0.3542	0.3355	6.9000e-004	0.0202	0.0176	0.0378	6.4200e-003	0.0163	0.0227	0.0000	62.1461	62.1461	0.0138	0.0000	62.4921
2022	0.2302	0.7843	0.8547	1.7300e-003	0.0434	0.0381	0.0815	0.0117	0.0353	0.0470	0.0000	154.8920	154.8920	0.0337	0.0000	155.7353
2023	0.1312	0.0428	0.0647	1.2000e-004	2.5700e-003	2.3200e-003	4.8900e-003	6.8000e-004	2.3200e-003	3.0000e-003	0.0000	10.4767	10.4767	5.4000e-004	0.0000	10.4901
Maximum	0.2302	0.7843	0.8547	1.7300e-003	0.0434	0.0381	0.0815	0.0117	0.0353	0.0470	0.0000	154.8920	154.8920	0.0337	0.0000	155.7353

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					
2021	0.0367	0.3542	0.3355	6.9000e-004	0.0179	0.0176	0.0355	5.2600e-003	0.0163	0.0215	0.0000	62.1460	62.1460	0.0138	0.0000	62.4920
2022	0.2302	0.7843	0.8547	1.7300e-003	0.0434	0.0381	0.0815	0.0117	0.0353	0.0470	0.0000	154.8919	154.8919	0.0337	0.0000	155.7351
2023	0.1312	0.0428	0.0647	1.2000e-004	2.5700e-003	2.3200e-003	4.8900e-003	6.8000e-004	2.3200e-003	3.0000e-003	0.0000	10.4767	10.4767	5.4000e-004	0.0000	10.4901
Maximum	0.2302	0.7843	0.8547	1.7300e-003	0.0434	0.0381	0.0815	0.0117	0.0353	0.0470	0.0000	154.8919	154.8919	0.0337	0.0000	155.7351

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	ROG	NOx	CO	SO2	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	3.42	0.00	1.82	6.19	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2021	11-30-2021	0.2770	0.2770
2	12-1-2021	2-28-2022	0.2929	0.2929
3	3-1-2022	5-31-2022	0.2859	0.2859
4	6-1-2022	8-31-2022	0.2855	0.2855
5	9-1-2022	11-30-2022	0.1998	0.1998
6	12-1-2022	2-28-2023	0.1736	0.1736
7	3-1-2023	5-31-2023	0.0613	0.0613
		Highest	0.2929	0.2929

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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	0.3493	9.7000e-003	0.7419	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5621
Energy	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	72.5604	72.5604	2.5000e-003	1.0000e-003	72.9210
Mobile	0.0855	0.3335	0.9583	3.6500e-003	0.3406	3.8600e-003	0.3444	0.0917	3.6100e-003	0.0953	0.0000	336.6869	336.6869	0.0139	0.0000	337.0336
Waste						0.0000	0.0000		0.0000	0.0000	6.5363	0.0000	6.5363	0.3863	0.0000	16.1934
Water						0.0000	0.0000		0.0000	0.0000	1.1575	4.0289	5.1865	0.1191	2.8500e-003	9.0121
Total	0.4381	0.3714	1.7122	4.3000e-003	0.3406	0.0408	0.3814	0.0917	0.0406	0.1323	10.8851	415.4361	426.3213	0.5277	4.0600e-003	440.7222

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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	0.3493	9.7000e-003	0.7419	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5621
Energy	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	72.5604	72.5604	2.5000e-003	1.0000e-003	72.9210
Mobile	0.0855	0.3335	0.9583	3.6500e-003	0.3406	3.8600e-003	0.3444	0.0917	3.6100e-003	0.0953	0.0000	336.6869	336.6869	0.0139	0.0000	337.0336
Waste						0.0000	0.0000		0.0000	0.0000	6.5363	0.0000	6.5363	0.3863	0.0000	16.1934
Water						0.0000	0.0000		0.0000	0.0000	1.1575	4.0289	5.1865	0.1191	2.8500e-003	9.0121
Total	0.4381	0.3714	1.7122	4.3000e-003	0.3406	0.0408	0.3814	0.0917	0.0406	0.1323	10.8851	415.4361	426.3213	0.5277	4.0600e-003	440.7222

	ROG	NOx	CO	SO2	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 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/15/2021	9/15/2021	5	1	
2	Grading	Grading	9/16/2021	9/29/2021	5	10	
3	Building Construction	Building Construction	9/29/2021	9/13/2022	5	250	
4	Paving	Paving	9/13/2022	9/19/2022	5	5	
5	Architectural Coating	Architectural Coating	9/19/2022	4/1/2023	5	140	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 76,936; Residential Outdoor: 25,645; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	50.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Site Preparation - 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					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-004	3.9100e-003	2.0100e-003	0.0000		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310
Total	3.2000e-004	3.9100e-003	2.0100e-003	0.0000	2.7000e-004	1.5000e-004	4.2000e-004	3.0000e-005	1.4000e-004	1.7000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0181	0.0181	0.0000	0.0000	0.0181
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0181	0.0181	0.0000	0.0000	0.0181

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3.2 Site Preparation - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-004	3.9100e-003	2.0100e-003	0.0000		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310
Total	3.2000e-004	3.9100e-003	2.0100e-003	0.0000	1.2000e-004	1.5000e-004	2.7000e-004	1.0000e-005	1.4000e-004	1.5000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0181	0.0181	0.0000	0.0000	0.0181
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0181	0.0181	0.0000	0.0000	0.0181

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3.3 Grading - 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					
Fugitive Dust					3.8500e-003	0.0000	3.8500e-003	2.0800e-003	0.0000	2.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0363	0.0379	6.0000e-005		2.0400e-003	2.0400e-003		1.9400e-003	1.9400e-003	0.0000	5.2047	5.2047	9.7000e-004	0.0000	5.2289
Total	3.9800e-003	0.0363	0.0379	6.0000e-005	3.8500e-003	2.0400e-003	5.8900e-003	2.0800e-003	1.9400e-003	4.0200e-003	0.0000	5.2047	5.2047	9.7000e-004	0.0000	5.2289

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	2.8000e-004	0.0121	3.9600e-003	3.0000e-005	6.3000e-004	3.0000e-005	6.6000e-004	1.7000e-004	3.0000e-005	2.1000e-004	0.0000	3.2905	3.2905	6.0000e-004	0.0000	3.3056
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	1.4000e-004	9.0000e-005	1.0400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3621	0.3621	1.0000e-005	0.0000	0.3623
Total	4.2000e-004	0.0122	5.0000e-003	3.0000e-005	1.0300e-003	3.0000e-005	1.0600e-003	2.8000e-004	3.0000e-005	3.2000e-004	0.0000	3.6526	3.6526	6.1000e-004	0.0000	3.6679

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3.3 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7300e-003	0.0000	1.7300e-003	9.4000e-004	0.0000	9.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0363	0.0379	6.0000e-005		2.0400e-003	2.0400e-003		1.9400e-003	1.9400e-003	0.0000	5.2047	5.2047	9.7000e-004	0.0000	5.2289
Total	3.9800e-003	0.0363	0.0379	6.0000e-005	1.7300e-003	2.0400e-003	3.7700e-003	9.4000e-004	1.9400e-003	2.8800e-003	0.0000	5.2047	5.2047	9.7000e-004	0.0000	5.2289

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	2.8000e-004	0.0121	3.9600e-003	3.0000e-005	6.3000e-004	3.0000e-005	6.6000e-004	1.7000e-004	3.0000e-005	2.1000e-004	0.0000	3.2905	3.2905	6.0000e-004	0.0000	3.3056
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	1.4000e-004	9.0000e-005	1.0400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3621	0.3621	1.0000e-005	0.0000	0.3623
Total	4.2000e-004	0.0122	5.0000e-003	3.0000e-005	1.0300e-003	3.0000e-005	1.0600e-003	2.8000e-004	3.0000e-005	3.2000e-004	0.0000	3.6526	3.6526	6.1000e-004	0.0000	3.6679

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3.4 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	0.0264	0.2715	0.2470	3.9000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	34.0279	34.0279	0.0110	0.0000	34.3030
Total	0.0264	0.2715	0.2470	3.9000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	34.0279	34.0279	0.0110	0.0000	34.3030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0273	8.3300e-003	6.0000e-005	1.5600e-003	6.0000e-005	1.6200e-003	4.5000e-004	6.0000e-005	5.1000e-004	0.0000	6.5043	6.5043	8.6000e-004	0.0000	6.5259
Worker	4.8400e-003	3.0900e-003	0.0353	1.4000e-004	0.0134	1.0000e-004	0.0135	3.5700e-003	9.0000e-005	3.6700e-003	0.0000	12.3110	12.3110	2.5000e-004	0.0000	12.3173
Total	5.5700e-003	0.0304	0.0437	2.0000e-004	0.0150	1.6000e-004	0.0152	4.0200e-003	1.5000e-004	4.1800e-003	0.0000	18.8152	18.8152	1.1100e-003	0.0000	18.8431

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3.4 Building Construction - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2715	0.2470	3.9000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	34.0279	34.0279	0.0110	0.0000	34.3030
Total	0.0264	0.2715	0.2470	3.9000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	34.0279	34.0279	0.0110	0.0000	34.3030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0273	8.3300e-003	6.0000e-005	1.5600e-003	6.0000e-005	1.6200e-003	4.5000e-004	6.0000e-005	5.1000e-004	0.0000	6.5043	6.5043	8.6000e-004	0.0000	6.5259
Worker	4.8400e-003	3.0900e-003	0.0353	1.4000e-004	0.0134	1.0000e-004	0.0135	3.5700e-003	9.0000e-005	3.6700e-003	0.0000	12.3110	12.3110	2.5000e-004	0.0000	12.3173
Total	5.5700e-003	0.0304	0.0437	2.0000e-004	0.0150	1.6000e-004	0.0152	4.0200e-003	1.5000e-004	4.1800e-003	0.0000	18.8152	18.8152	1.1100e-003	0.0000	18.8431

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3.4 Building Construction - 2022**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	0.0625	0.6393	0.6509	1.0400e-003		0.0339	0.0339		0.0311	0.0311	0.0000	91.1344	91.1344	0.0295	0.0000	91.8713
Total	0.0625	0.6393	0.6509	1.0400e-003		0.0339	0.0339		0.0311	0.0311	0.0000	91.1344	91.1344	0.0295	0.0000	91.8713

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0691	0.0219	1.7000e-004	4.1600e-003	1.4000e-004	4.3100e-003	1.2000e-003	1.4000e-004	1.3400e-003	0.0000	17.1787	17.1787	2.2800e-003	0.0000	17.2356
Worker	0.0122	7.4700e-003	0.0882	3.5000e-004	0.0360	2.7000e-004	0.0362	9.5600e-003	2.5000e-004	9.8100e-003	0.0000	31.7265	31.7265	6.1000e-004	0.0000	31.7418
Total	0.0140	0.0766	0.1100	5.2000e-004	0.0401	4.1000e-004	0.0405	0.0108	3.9000e-004	0.0112	0.0000	48.9051	48.9051	2.8900e-003	0.0000	48.9774

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3.4 Building Construction - 2022**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	0.0625	0.6393	0.6509	1.0400e-003		0.0339	0.0339		0.0311	0.0311	0.0000	91.1343	91.1343	0.0295	0.0000	91.8712
Total	0.0625	0.6393	0.6509	1.0400e-003		0.0339	0.0339		0.0311	0.0311	0.0000	91.1343	91.1343	0.0295	0.0000	91.8712

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0691	0.0219	1.7000e-004	4.1600e-003	1.4000e-004	4.3100e-003	1.2000e-003	1.4000e-004	1.3400e-003	0.0000	17.1787	17.1787	2.2800e-003	0.0000	17.2356
Worker	0.0122	7.4700e-003	0.0882	3.5000e-004	0.0360	2.7000e-004	0.0362	9.5600e-003	2.5000e-004	9.8100e-003	0.0000	31.7265	31.7265	6.1000e-004	0.0000	31.7418
Total	0.0140	0.0766	0.1100	5.2000e-004	0.0401	4.1000e-004	0.0405	0.0108	3.9000e-004	0.0112	0.0000	48.9051	48.9051	2.8900e-003	0.0000	48.9774

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3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	7.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3138	0.3138	1.0000e-005	0.0000	0.3139
Total	1.2000e-004	7.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3138	0.3138	1.0000e-005	0.0000	0.3139

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3.5 Paving - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	7.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3138	0.3138	1.0000e-005	0.0000	0.3139
Total	1.2000e-004	7.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3138	0.3138	1.0000e-005	0.0000	0.3139

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3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6700e-003	0.0528	0.0680	1.1000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	9.5747	9.5747	6.2000e-004	0.0000	9.5903
Total	0.1510	0.0528	0.0680	1.1000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	9.5747	9.5747	6.2000e-004	0.0000	9.5903

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	6.2000e-004	7.2700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6148	2.6148	5.0000e-005	0.0000	2.6161
Total	1.0100e-003	6.2000e-004	7.2700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6148	2.6148	5.0000e-005	0.0000	2.6161

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3.6 Architectural Coating - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6700e-003	0.0528	0.0680	1.1000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	9.5747	9.5747	6.2000e-004	0.0000	9.5903
Total	0.1510	0.0528	0.0680	1.1000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	9.5747	9.5747	6.2000e-004	0.0000	9.5903

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	6.2000e-004	7.2700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6148	2.6148	5.0000e-005	0.0000	2.6161
Total	1.0100e-003	6.2000e-004	7.2700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6148	2.6148	5.0000e-005	0.0000	2.6161

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3.6 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2300e-003	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105
Total	0.1304	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105

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	8.3000e-004	4.8000e-004	5.8800e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1787	2.1787	4.0000e-005	0.0000	2.1796
Total	8.3000e-004	4.8000e-004	5.8800e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1787	2.1787	4.0000e-005	0.0000	2.1796

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3.6 Architectural Coating - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2300e-003	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105
Total	0.1304	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105

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	8.3000e-004	4.8000e-004	5.8800e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1787	2.1787	4.0000e-005	0.0000	2.1796
Total	8.3000e-004	4.8000e-004	5.8800e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1787	2.1787	4.0000e-005	0.0000	2.1796

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0855	0.3335	0.9583	3.6500e-003	0.3406	3.8600e-003	0.3444	0.0917	3.6100e-003	0.0953	0.0000	336.6869	336.6869	0.0139	0.0000	337.0336
Unmitigated	0.0855	0.3335	0.9583	3.6500e-003	0.3406	3.8600e-003	0.3444	0.0917	3.6100e-003	0.0953	0.0000	336.6869	336.6869	0.0139	0.0000	337.0336

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	380.80	447.30	410.20	911,140	911,140
Total	380.80	447.30	410.20	911,140	911,140

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.604697	0.038136	0.192426	0.089922	0.013708	0.005077	0.031210	0.009257	0.004288	0.003553	0.006262	0.000945	0.000519

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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	39.9482	39.9482	1.8800e-003	4.0000e-004	40.1150
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.9482	39.9482	1.8800e-003	4.0000e-004	40.1150
NaturalGas Mitigated	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060
NaturalGas Unmitigated	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060

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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	611130	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060
Total		3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060

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	611130	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060
Total		3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	295539	39.9482	1.8800e-003	4.0000e-004	40.1150
Total		39.9482	1.8800e-003	4.0000e-004	40.1150

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	295539	39.9482	1.8800e-003	4.0000e-004	40.1150
Total		39.9482	1.8800e-003	4.0000e-004	40.1150

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3493	9.7000e-003	0.7419	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5621
Unmitigated	0.3493	9.7000e-003	0.7419	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5621

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	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1615	3.7200e-003	0.2224	4.4000e-004		0.0318	0.0318		0.0318	0.0318	3.1913	1.3108	4.5021	5.1300e-003	2.1000e-004	4.6927
Landscaping	0.0156	5.9900e-003	0.5195	3.0000e-005		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	0.8490	0.8490	8.1000e-004	0.0000	0.8694
Total	0.3493	9.7100e-003	0.7419	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5621

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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	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1615	3.7200e-003	0.2224	4.4000e-004		0.0318	0.0318		0.0318	0.0318	3.1913	1.3108	4.5021	5.1300e-003	2.1000e-004	4.6927
Landscaping	0.0156	5.9900e-003	0.5195	3.0000e-005		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	0.8490	0.8490	8.1000e-004	0.0000	0.8694
Total	0.3493	9.7100e-003	0.7419	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5621

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.1865	0.1191	2.8500e-003	9.0121
Unmitigated	5.1865	0.1191	2.8500e-003	9.0121

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.64863 / 2.87528	5.1865	0.1191	2.8500e-003	9.0121
Total		5.1865	0.1191	2.8500e-003	9.0121

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.64863 / 2.87528	5.1865	0.1191	2.8500e-003	9.0121
Total		5.1865	0.1191	2.8500e-003	9.0121

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.5363	0.3863	0.0000	16.1934
Unmitigated	6.5363	0.3863	0.0000	16.1934

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	32.2	6.5363	0.3863	0.0000	16.1934
Total		6.5363	0.3863	0.0000	16.1934

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	32.2	6.5363	0.3863	0.0000	16.1934
Total		6.5363	0.3863	0.0000	16.1934

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

180 Jones Street - San Francisco County, Summer

180 Jones Street
San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	70.00	Dwelling Unit	0.10	37,993.00	200

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	4.6	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2030 RPS adjustment

Land Use - 0.1 acre lot (4,370 sf) - total GFA = 37,993

Construction Phase - 19 month construction. start sept 2021 - end april 2023. extended arch coating and grading

Grading - 600 cubic yards export

Vehicle Trips - ITE Land Use 221 - 5.44 ADT per unit

Area Coating - BAAQMD Rule 3, Architectural Coating

Construction Off-road Equipment Mitigation -

Energy Use -

Water And Wastewater - 20 percent reduction per CalGreen

180 Jones Street - San Francisco County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Parking	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblConstructionPhase	NumDays	5.00	140.00
tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	2.00	10.00
tblGrading	MaterialExported	0.00	600.00
tblLandUse	LandUseSquareFeet	70,000.00	37,993.00
tblLandUse	LotAcreage	1.84	0.10
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	WD_TR	6.65	5.44
tblWater	IndoorWaterUseRate	4,560,781.79	3,648,625.43

2.0 Emissions Summary

180 Jones Street - San Francisco County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8200	18.4877	17.1844	0.0365	1.4407	0.8671	2.3078	0.5964	0.8119	1.4083	0.0000	3,700.2510	3,700.2510	0.7409	0.0000	3,718.7727
2022	4.7474	13.7907	15.8313	0.0301	0.6058	0.6736	1.2794	0.1618	0.6232	0.7849	0.0000	2,904.2680	2,904.2680	0.6967	0.0000	2,921.6849
2023	4.0377	1.3160	2.0058	3.7600e-003	0.0822	0.0714	0.1536	0.0218	0.0714	0.0931	0.0000	359.8875	359.8875	0.0183	0.0000	360.3441
Maximum	4.7474	18.4877	17.1844	0.0365	1.4407	0.8671	2.3078	0.5964	0.8119	1.4083	0.0000	3,700.2510	3,700.2510	0.7409	0.0000	3,718.7727

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8200	18.4877	17.1844	0.0365	1.0170	0.8671	1.8840	0.3673	0.8119	1.1792	0.0000	3,700.2509	3,700.2509	0.7409	0.0000	3,718.7727
2022	4.7474	13.7907	15.8313	0.0301	0.6058	0.6736	1.2794	0.1618	0.6232	0.7849	0.0000	2,904.2680	2,904.2680	0.6967	0.0000	2,921.6849
2023	4.0377	1.3160	2.0058	3.7600e-003	0.0822	0.0714	0.1536	0.0218	0.0714	0.0931	0.0000	359.8875	359.8875	0.0183	0.0000	360.3441
Maximum	4.7474	18.4877	17.1844	0.0365	1.0170	0.8671	1.8840	0.3673	0.8119	1.1792	0.0000	3,700.2509	3,700.2509	0.7409	0.0000	3,718.7727

180 Jones Street - San Francisco County, Summer

	ROG	NOx	CO	SO2	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	19.91	0.00	11.33	29.37	0.00	10.02	0.00	0.00	0.00	0.00	0.00	0.00

180 Jones Street - San Francisco County, Summer

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	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078
Energy	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
Mobile	0.5828	1.9946	6.1034	0.0239	2.2039	0.0241	2.2280	0.5916	0.0225	0.6140		2,423.1963	2,423.1963	0.0957		2,425.5895
Total	30.5059	2.8519	49.9767	0.0984	2.2039	5.4681	7.6721	0.5916	5.4666	6.0581	585.9592	2,889.9866	3,475.9458	0.9113	0.0450	3,512.1478

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	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078
Energy	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
Mobile	0.5828	1.9946	6.1034	0.0239	2.2039	0.0241	2.2280	0.5916	0.0225	0.6140		2,423.1963	2,423.1963	0.0957		2,425.5895
Total	30.5059	2.8519	49.9767	0.0984	2.2039	5.4681	7.6721	0.5916	5.4666	6.0581	585.9592	2,889.9866	3,475.9458	0.9113	0.0450	3,512.1478

180 Jones Street - San Francisco County, Summer

	ROG	NOx	CO	SO2	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 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/15/2021	9/15/2021	5	1	
2	Grading	Grading	9/16/2021	9/29/2021	5	10	
3	Building Construction	Building Construction	9/29/2021	9/13/2022	5	250	
4	Paving	Paving	9/13/2022	9/19/2022	5	5	
5	Architectural Coating	Architectural Coating	9/19/2022	4/1/2023	5	140	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 76,936; Residential Outdoor: 25,645; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

180 Jones Street - San Francisco County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	50.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

180 Jones Street - San Francisco County, Summer

3.2 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.5303	0.2995	0.8297	0.0573	0.2755	0.3328		942.5842	942.5842	0.3049		950.2055

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	0.0143	7.9400e-003	0.1113	4.2000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.3733	42.3733	8.7000e-004		42.3950
Total	0.0143	7.9400e-003	0.1113	4.2000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.3733	42.3733	8.7000e-004		42.3950

180 Jones Street - San Francisco County, Summer

3.2 Site Preparation - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755	0.0000	942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.2386	0.2995	0.5381	0.0258	0.2755	0.3013	0.0000	942.5842	942.5842	0.3049		950.2055

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	0.0143	7.9400e-003	0.1113	4.2000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.3733	42.3733	8.7000e-004		42.3950
Total	0.0143	7.9400e-003	0.1113	4.2000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		42.3733	42.3733	8.7000e-004		42.3950

180 Jones Street - San Francisco County, Summer

3.3 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7705	0.0000	0.7705	0.4165	0.0000	0.4165			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.7705	0.4073	1.1778	0.4165	0.3886	0.8051		1,147.4338	1,147.4338	0.2138		1,152.7797

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	0.0563	2.3629	0.7827	6.1600e-003	0.1302	6.8500e-003	0.1370	0.0356	6.5500e-003	0.0422		728.6702	728.6702	0.1323		731.9768
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	0.0286	0.0159	0.2225	8.5000e-004	0.0822	6.0000e-004	0.0827	0.0218	5.5000e-004	0.0223		84.7466	84.7466	1.7300e-003		84.7900
Total	0.0849	2.3787	1.0052	7.0100e-003	0.2123	7.4500e-003	0.2197	0.0574	7.1000e-003	0.0645		813.4168	813.4168	0.1340		816.7668

180 Jones Street - San Francisco County, Summer

3.3 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3467	0.0000	0.3467	0.1874	0.0000	0.1874			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.3467	0.4073	0.7541	0.1874	0.3886	0.5760	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797

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	0.0563	2.3629	0.7827	6.1600e-003	0.1302	6.8500e-003	0.1370	0.0356	6.5500e-003	0.0422		728.6702	728.6702	0.1323		731.9768
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	0.0286	0.0159	0.2225	8.5000e-004	0.0822	6.0000e-004	0.0827	0.0218	5.5000e-004	0.0223		84.7466	84.7466	1.7300e-003		84.7900
Total	0.0849	2.3787	1.0052	7.0100e-003	0.2123	7.4500e-003	0.2197	0.0574	7.1000e-003	0.0645		813.4168	813.4168	0.1340		816.7668

180 Jones Street - San Francisco County, Summer

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358

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	0.0209	0.7916	0.2337	1.8800e-003	0.0472	1.7600e-003	0.0490	0.0136	1.6800e-003	0.0153		212.4514	212.4514	0.0276		213.1404
Worker	0.1428	0.0794	1.1127	4.2500e-003	0.4107	2.9900e-003	0.4137	0.1090	2.7500e-003	0.1117		423.7332	423.7332	8.6700e-003		423.9500
Total	0.1636	0.8710	1.3464	6.1300e-003	0.4580	4.7500e-003	0.4627	0.1225	4.4300e-003	0.1270		636.1846	636.1846	0.0362		637.0904

180 Jones Street - San Francisco County, Summer

3.4 Building Construction - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358

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	0.0209	0.7916	0.2337	1.8800e-003	0.0472	1.7600e-003	0.0490	0.0136	1.6800e-003	0.0153		212.4514	212.4514	0.0276		213.1404
Worker	0.1428	0.0794	1.1127	4.2500e-003	0.4107	2.9900e-003	0.4137	0.1090	2.7500e-003	0.1117		423.7332	423.7332	8.6700e-003		423.9500
Total	0.1636	0.8710	1.3464	6.1300e-003	0.4580	4.7500e-003	0.4627	0.1225	4.4300e-003	0.1270		636.1846	636.1846	0.0362		637.0904

180 Jones Street - San Francisco County, Summer

3.4 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.939 3	1,103.939 3	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.939 3	1,103.939 3	0.3570		1,112.865 2

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	0.0195	0.7500	0.2298	1.8500e-003	0.0472	1.5500e-003	0.0488	0.0136	1.4800e-003	0.0151		209.6558	209.6558	0.0272		210.3363
Worker	0.1344	0.0718	1.0398	4.0900e-003	0.4107	2.9400e-003	0.4137	0.1090	2.7100e-003	0.1117		407.9767	407.9767	7.8600e-003		408.1733
Total	0.1540	0.8217	1.2696	5.9400e-003	0.4580	4.4900e-003	0.4625	0.1225	4.1900e-003	0.1267		617.6325	617.6325	0.0351		618.5096

180 Jones Street - San Francisco County, Summer

3.4 Building Construction - 2022**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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.865 2

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	0.0195	0.7500	0.2298	1.8500e-003	0.0472	1.5500e-003	0.0488	0.0136	1.4800e-003	0.0151		209.6558	209.6558	0.0272		210.3363
Worker	0.1344	0.0718	1.0398	4.0900e-003	0.4107	2.9400e-003	0.4137	0.1090	2.7100e-003	0.1117		407.9767	407.9767	7.8600e-003		408.1733
Total	0.1540	0.8217	1.2696	5.9400e-003	0.4580	4.4900e-003	0.4625	0.1225	4.1900e-003	0.1267		617.6325	617.6325	0.0351		618.5096

180 Jones Street - San Francisco County, Summer

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677

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	0.0484	0.0258	0.3743	1.4700e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		146.8716	146.8716	2.8300e-003		146.9424
Total	0.0484	0.0258	0.3743	1.4700e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		146.8716	146.8716	2.8300e-003		146.9424

180 Jones Street - San Francisco County, Summer

3.5 Paving - 2022**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	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677

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	0.0484	0.0258	0.3743	1.4700e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		146.8716	146.8716	2.8300e-003		146.9424
Total	0.0484	0.0258	0.3743	1.4700e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		146.8716	146.8716	2.8300e-003		146.9424

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3.6 Architectural Coating - 2022**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	3.8207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	4.0252	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.0269	0.0144	0.2080	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.5954	81.5954	1.5700e-003		81.6347
Total	0.0269	0.0144	0.2080	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.5954	81.5954	1.5700e-003		81.6347

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3.6 Architectural Coating - 2022**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	3.8207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	4.0252	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.0269	0.0144	0.2080	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.5954	81.5954	1.5700e-003		81.6347
Total	0.0269	0.0144	0.2080	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.5954	81.5954	1.5700e-003		81.6347

180 Jones Street - San Francisco County, Summer

3.6 Architectural Coating - 2023**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	3.8207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	4.0123	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0254	0.0130	0.1947	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		78.4395	78.4395	1.4300e-003		78.4751
Total	0.0254	0.0130	0.1947	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		78.4395	78.4395	1.4300e-003		78.4751

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3.6 Architectural Coating - 2023**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	3.8207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	4.0123	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0254	0.0130	0.1947	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		78.4395	78.4395	1.4300e-003		78.4751
Total	0.0254	0.0130	0.1947	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		78.4395	78.4395	1.4300e-003		78.4751

4.0 Operational Detail - Mobile

180 Jones Street - San Francisco County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5828	1.9946	6.1034	0.0239	2.2039	0.0241	2.2280	0.5916	0.0225	0.6140		2,423.1963	2,423.1963	0.0957		2,425.5895
Unmitigated	0.5828	1.9946	6.1034	0.0239	2.2039	0.0241	2.2280	0.5916	0.0225	0.6140		2,423.1963	2,423.1963	0.0957		2,425.5895

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	380.80	447.30	410.20	911,140	911,140
Total	380.80	447.30	410.20	911,140	911,140

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.604697	0.038136	0.192426	0.089922	0.013708	0.005077	0.031210	0.009257	0.004288	0.003553	0.006262	0.000945	0.000519

180 Jones Street - San Francisco County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
NaturalGas Unmitigated	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504

180 Jones Street - San Francisco County, Summer

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					
Apartments Mid Rise	1674.33	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
Total		0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504

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					
Apartments Mid Rise	1.67433	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
Total		0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504

6.0 Area Detail**6.1 Mitigation Measures Area**

180 Jones Street - San Francisco County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078
Unmitigated	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078

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	0.1303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	28.7882	0.6364	38.0349	0.0733		5.3996	5.3996		5.3996	5.3996	585.9592	259.4118	845.3710	0.8019	0.0414	877.7597
Landscaping	0.1736	0.0665	5.7727	3.0000e-004		0.0320	0.0320		0.0320	0.0320		10.3987	10.3987	9.9800e-003		10.6481
Total	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078

180 Jones Street - San Francisco County, Summer

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	0.1303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	28.7882	0.6364	38.0349	0.0733		5.3996	5.3996		5.3996	5.3996	585.9592	259.4118	845.3710	0.8019	0.0414	877.7597
Landscaping	0.1736	0.0665	5.7727	3.0000e-004		0.0320	0.0320		0.0320	0.0320		10.3987	10.3987	9.9800e-003		10.6481
Total	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

180 Jones Street - San Francisco County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

180 Jones Street - San Francisco County, Winter

180 Jones Street
San Francisco County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	70.00	Dwelling Unit	0.10	37,993.00	200

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	4.6	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2030 RPS adjustment

Land Use - 0.1 acre lot (4,370 sf) - total GFA = 37,993

Construction Phase - 19 month construction. start sept 2021 - end april 2023. extended arch coating and grading

Grading - 600 cubic yards export

Vehicle Trips - ITE Land Use 221 - 5.44 ADT per unit

Area Coating - BAAQMD Rule 3, Architectural Coating

Construction Off-road Equipment Mitigation -

Energy Use -

Water And Wastewater - 20 percent reduction per CalGreen

180 Jones Street - San Francisco County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Parking	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblConstructionPhase	NumDays	5.00	140.00
tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	2.00	10.00
tblGrading	MaterialExported	0.00	600.00
tblLandUse	LandUseSquareFeet	70,000.00	37,993.00
tblLandUse	LotAcreage	1.84	0.10
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	WD_TR	6.65	5.44
tblWater	IndoorWaterUseRate	4,560,781.79	3,648,625.43

2.0 Emissions Summary

180 Jones Street - San Francisco County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8425	18.5873	17.1750	0.0361	1.4407	0.8674	2.3081	0.5964	0.8122	1.4086	0.0000	3,658.250 2	3,658.250 2	0.7431	0.0000	3,676.827 0
2022	4.7565	13.8217	15.7879	0.0297	0.6058	0.6737	1.2795	0.1618	0.6233	0.7850	0.0000	2,867.231 4	2,867.231 4	0.6969	0.0000	2,884.653 8
2023	4.0409	1.3191	1.9962	3.7100e-003	0.0822	0.0714	0.1536	0.0218	0.0714	0.0931	0.0000	355.1825	355.1825	0.0182	0.0000	355.6369
Maximum	4.7565	18.5873	17.1750	0.0361	1.4407	0.8674	2.3081	0.5964	0.8122	1.4086	0.0000	3,658.250 2	3,658.250 2	0.7431	0.0000	3,676.827 0

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8425	18.5873	17.1750	0.0361	1.0170	0.8674	1.8844	0.3673	0.8122	1.1795	0.0000	3,658.250 1	3,658.250 1	0.7431	0.0000	3,676.827 0
2022	4.7565	13.8217	15.7879	0.0297	0.6058	0.6737	1.2795	0.1618	0.6233	0.7850	0.0000	2,867.231 4	2,867.231 4	0.6969	0.0000	2,884.653 8
2023	4.0409	1.3191	1.9962	3.7100e-003	0.0822	0.0714	0.1536	0.0218	0.0714	0.0931	0.0000	355.1825	355.1825	0.0182	0.0000	355.6369
Maximum	4.7565	18.5873	17.1750	0.0361	1.0170	0.8674	1.8844	0.3673	0.8122	1.1795	0.0000	3,658.250 1	3,658.250 1	0.7431	0.0000	3,676.827 0

180 Jones Street - San Francisco County, Winter

	ROG	NOx	CO	SO2	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	19.91	0.00	11.33	29.37	0.00	10.02	0.00	0.00	0.00	0.00	0.00	0.00

180 Jones Street - San Francisco County, Winter

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	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078
Energy	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
Mobile	0.5358	2.1179	6.2008	0.0227	2.2039	0.0241	2.2281	0.5916	0.0226	0.6141		2,308.3085	2,308.3085	0.0965		2,310.7216
Total	30.4589	2.9751	50.0741	0.0973	2.2039	5.4682	7.6722	0.5916	5.4667	6.0582	585.9592	2,775.0988	3,361.0581	0.9121	0.0450	3,397.2798

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	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078
Energy	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
Mobile	0.5358	2.1179	6.2008	0.0227	2.2039	0.0241	2.2281	0.5916	0.0226	0.6141		2,308.3085	2,308.3085	0.0965		2,310.7216
Total	30.4589	2.9751	50.0741	0.0973	2.2039	5.4682	7.6722	0.5916	5.4667	6.0582	585.9592	2,775.0988	3,361.0581	0.9121	0.0450	3,397.2798

180 Jones Street - San Francisco County, Winter

	ROG	NOx	CO	SO2	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 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/15/2021	9/15/2021	5	1	
2	Grading	Grading	9/16/2021	9/29/2021	5	10	
3	Building Construction	Building Construction	9/29/2021	9/13/2022	5	250	
4	Paving	Paving	9/13/2022	9/19/2022	5	5	
5	Architectural Coating	Architectural Coating	9/19/2022	4/1/2023	5	140	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 76,936; Residential Outdoor: 25,645; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

180 Jones Street - San Francisco County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	50.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

180 Jones Street - San Francisco County, Winter

3.2 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.5303	0.2995	0.8297	0.0573	0.2755	0.3328		942.5842	942.5842	0.3049		950.2055

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	0.0159	9.8300e-003	0.1065	4.0000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		39.8269	39.8269	8.2000e-004		39.8474
Total	0.0159	9.8300e-003	0.1065	4.0000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		39.8269	39.8269	8.2000e-004		39.8474

180 Jones Street - San Francisco County, Winter

3.2 Site Preparation - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755	0.0000	942.5842	942.5842	0.3049		950.2055
Total	0.6403	7.8204	4.0274	9.7300e-003	0.2386	0.2995	0.5381	0.0258	0.2755	0.3013	0.0000	942.5842	942.5842	0.3049		950.2055

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	0.0159	9.8300e-003	0.1065	4.0000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		39.8269	39.8269	8.2000e-004		39.8474
Total	0.0159	9.8300e-003	0.1065	4.0000e-004	0.0411	3.0000e-004	0.0414	0.0109	2.7000e-004	0.0112		39.8269	39.8269	8.2000e-004		39.8474

180 Jones Street - San Francisco County, Winter

3.3 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7705	0.0000	0.7705	0.4165	0.0000	0.4165			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.7705	0.4073	1.1778	0.4165	0.3886	0.8051		1,147.4338	1,147.4338	0.2138		1,152.7797

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	0.0576	2.4308	0.8073	6.0900e-003	0.1302	7.0800e-003	0.1372	0.0356	6.7700e-003	0.0424		720.9765	720.9765	0.1341		724.3295
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	0.0319	0.0197	0.2130	8.0000e-004	0.0822	6.0000e-004	0.0827	0.0218	5.5000e-004	0.0223		79.6539	79.6539	1.6400e-003		79.6948
Total	0.0895	2.4505	1.0203	6.8900e-003	0.2123	7.6800e-003	0.2200	0.0574	7.3200e-003	0.0647		800.6304	800.6304	0.1358		804.0243

180 Jones Street - San Francisco County, Winter

3.3 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3467	0.0000	0.3467	0.1874	0.0000	0.1874			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.3467	0.4073	0.7541	0.1874	0.3886	0.5760	0.0000	1,147.4338	1,147.4338	0.2138		1,152.7797

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	0.0576	2.4308	0.8073	6.0900e-003	0.1302	7.0800e-003	0.1372	0.0356	6.7700e-003	0.0424		720.9765	720.9765	0.1341		724.3295
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	0.0319	0.0197	0.2130	8.0000e-004	0.0822	6.0000e-004	0.0827	0.0218	5.5000e-004	0.0223		79.6539	79.6539	1.6400e-003		79.6948
Total	0.0895	2.4505	1.0203	6.8900e-003	0.2123	7.6800e-003	0.2200	0.0574	7.3200e-003	0.0647		800.6304	800.6304	0.1358		804.0243

180 Jones Street - San Francisco County, Winter

3.4 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358

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	0.0221	0.8006	0.2568	1.8500e-003	0.0472	1.8600e-003	0.0491	0.0136	1.7800e-003	0.0154		208.7009	208.7009	0.0285		209.4134
Worker	0.1594	0.0983	1.0651	3.9900e-003	0.4107	2.9900e-003	0.4137	0.1090	2.7500e-003	0.1117		398.2694	398.2694	8.1800e-003		398.4738
Total	0.1814	0.8988	1.3219	5.8400e-003	0.4580	4.8500e-003	0.4628	0.1225	4.5300e-003	0.1271		606.9702	606.9702	0.0367		607.8872

180 Jones Street - San Francisco County, Winter

3.4 Building Construction - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358

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	0.0221	0.8006	0.2568	1.8500e-003	0.0472	1.8600e-003	0.0491	0.0136	1.7800e-003	0.0154		208.7009	208.7009	0.0285		209.4134
Worker	0.1594	0.0983	1.0651	3.9900e-003	0.4107	2.9900e-003	0.4137	0.1090	2.7500e-003	0.1117		398.2694	398.2694	8.1800e-003		398.4738
Total	0.1814	0.8988	1.3219	5.8400e-003	0.4580	4.8500e-003	0.4628	0.1225	4.5300e-003	0.1271		606.9702	606.9702	0.0367		607.8872

180 Jones Street - San Francisco County, Winter

3.4 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.939 3	1,103.939 3	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.939 3	1,103.939 3	0.3570		1,112.865 2

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	0.0207	0.7578	0.2516	1.8100e-003	0.0472	1.6500e-003	0.0489	0.0136	1.5800e-003	0.0152		205.9311	205.9311	0.0281		206.6330
Worker	0.1507	0.0888	0.9918	3.8400e-003	0.4107	2.9400e-003	0.4137	0.1090	2.7100e-003	0.1117		383.4827	383.4827	7.4000e-003		383.6676
Total	0.1713	0.8466	1.2434	5.6500e-003	0.4580	4.5900e-003	0.4626	0.1225	4.2900e-003	0.1268		589.4138	589.4138	0.0355		590.3006

180 Jones Street - San Francisco County, Winter

3.4 Building Construction - 2022**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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.865 2

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	0.0207	0.7578	0.2516	1.8100e-003	0.0472	1.6500e-003	0.0489	0.0136	1.5800e-003	0.0152		205.9311	205.9311	0.0281		206.6330
Worker	0.1507	0.0888	0.9918	3.8400e-003	0.4107	2.9400e-003	0.4137	0.1090	2.7100e-003	0.1117		383.4827	383.4827	7.4000e-003		383.6676
Total	0.1713	0.8466	1.2434	5.6500e-003	0.4580	4.5900e-003	0.4626	0.1225	4.2900e-003	0.1268		589.4138	589.4138	0.0355		590.3006

180 Jones Street - San Francisco County, Winter

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.824 6	1,035.824 6	0.3017		1,043.367 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.824 6	1,035.824 6	0.3017		1,043.367 7

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	0.0542	0.0320	0.3571	1.3800e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		138.0538	138.0538	2.6600e-003		138.1203
Total	0.0542	0.0320	0.3571	1.3800e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		138.0538	138.0538	2.6600e-003		138.1203

180 Jones Street - San Francisco County, Winter

3.5 Paving - 2022**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	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.824 6	1,035.824 6	0.3017		1,043.367 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.824 6	1,035.824 6	0.3017		1,043.367 7

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	0.0542	0.0320	0.3571	1.3800e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		138.0538	138.0538	2.6600e-003		138.1203
Total	0.0542	0.0320	0.3571	1.3800e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		138.0538	138.0538	2.6600e-003		138.1203

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3.6 Architectural Coating - 2022**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	3.8207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	4.0252	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.0301	0.0178	0.1984	7.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		76.6965	76.6965	1.4800e-003		76.7335
Total	0.0301	0.0178	0.1984	7.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		76.6965	76.6965	1.4800e-003		76.7335

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3.6 Architectural Coating - 2022**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	3.8207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	4.0252	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.0301	0.0178	0.1984	7.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		76.6965	76.6965	1.4800e-003		76.7335
Total	0.0301	0.0178	0.1984	7.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		76.6965	76.6965	1.4800e-003		76.7335

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3.6 Architectural Coating - 2023**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	3.8207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	4.0123	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0286	0.0161	0.1851	7.4000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		73.7344	73.7344	1.3400e-003		73.7679
Total	0.0286	0.0161	0.1851	7.4000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		73.7344	73.7344	1.3400e-003		73.7679

180 Jones Street - San Francisco County, Winter

3.6 Architectural Coating - 2023**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	3.8207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	4.0123	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0286	0.0161	0.1851	7.4000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		73.7344	73.7344	1.3400e-003		73.7679
Total	0.0286	0.0161	0.1851	7.4000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.4000e-004	0.0223		73.7344	73.7344	1.3400e-003		73.7679

4.0 Operational Detail - Mobile

180 Jones Street - San Francisco County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5358	2.1179	6.2008	0.0227	2.2039	0.0241	2.2281	0.5916	0.0226	0.6141		2,308.3085	2,308.3085	0.0965		2,310.7216
Unmitigated	0.5358	2.1179	6.2008	0.0227	2.2039	0.0241	2.2281	0.5916	0.0226	0.6141		2,308.3085	2,308.3085	0.0965		2,310.7216

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	380.80	447.30	410.20	911,140	911,140
Total	380.80	447.30	410.20	911,140	911,140

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.604697	0.038136	0.192426	0.089922	0.013708	0.005077	0.031210	0.009257	0.004288	0.003553	0.006262	0.000945	0.000519

180 Jones Street - San Francisco County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
NaturalGas Unmitigated	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504

180 Jones Street - San Francisco County, Winter

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					
Apartments Mid Rise	1674.33	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
Total		0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504

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					
Apartments Mid Rise	1.67433	0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504
Total		0.0181	0.1543	0.0657	9.8000e-004		0.0125	0.0125		0.0125	0.0125		196.9799	196.9799	3.7800e-003	3.6100e-003	198.1504

6.0 Area Detail**6.1 Mitigation Measures Area**

180 Jones Street - San Francisco County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078
Unmitigated	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078

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	0.1303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	28.7882	0.6364	38.0349	0.0733		5.3996	5.3996		5.3996	5.3996	585.9592	259.4118	845.3710	0.8019	0.0414	877.7597
Landscaping	0.1736	0.0665	5.7727	3.0000e-004		0.0320	0.0320		0.0320	0.0320		10.3987	10.3987	9.9800e-003		10.6481
Total	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078

180 Jones Street - San Francisco County, Winter

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	0.1303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	28.7882	0.6364	38.0349	0.0733		5.3996	5.3996		5.3996	5.3996	585.9592	259.4118	845.3710	0.8019	0.0414	877.7597
Landscaping	0.1736	0.0665	5.7727	3.0000e-004		0.0320	0.0320		0.0320	0.0320		10.3987	10.3987	9.9800e-003		10.6481
Total	29.9051	0.7029	43.8076	0.0736		5.4316	5.4316		5.4316	5.4316	585.9592	269.8104	855.7697	0.8118	0.0414	888.4078

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

180 Jones Street - San Francisco County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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180 Jones Street

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	70.00	Dwelling Unit	0.10	37,993.00	200

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	4.6	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.49	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2030 RPS adjustment

Land Use - 0.1 acre lot (4,370 sf) - total GFA = 37,993

Construction Phase - 19 month construction. start sept 2021 - end april 2023. extended arch coating and grading

Grading - 600 cubic yards export

Vehicle Trips - ITE Land Use 221 - 5.44 ADT per unit

Area Coating - BAAQMD Rule 3, Architectural Coating

Energy Use -

Water And Wastewater - Reduced water 20 percent per 2016 CalGreen (Part 11 of Title 24)

Construction Off-road Equipment Mitigation -

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Parking	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblConstructionPhase	NumDays	5.00	140.00
tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	2.00	10.00
tblGrading	MaterialExported	0.00	600.00
tblLandUse	LandUseSquareFeet	70,000.00	37,993.00
tblLandUse	LotAcreage	1.84	0.10
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.49
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	WD_TR	6.65	5.44
tblWater	IndoorWaterUseRate	4,560,781.79	3,648,625.43

2.0 Emissions Summary

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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					
2021	0.0367	0.3542	0.3355	6.9000e-004	0.0202	0.0176	0.0378	6.4200e-003	0.0163	0.0227	0.0000	62.1461	62.1461	0.0138	0.0000	62.4921
2022	0.2302	0.7843	0.8547	1.7300e-003	0.0434	0.0381	0.0815	0.0117	0.0353	0.0470	0.0000	154.8920	154.8920	0.0337	0.0000	155.7353
2023	0.1312	0.0428	0.0647	1.2000e-004	2.5700e-003	2.3200e-003	4.8900e-003	6.8000e-004	2.3200e-003	3.0000e-003	0.0000	10.4767	10.4767	5.4000e-004	0.0000	10.4901
Maximum	0.2302	0.7843	0.8547	1.7300e-003	0.0434	0.0381	0.0815	0.0117	0.0353	0.0470	0.0000	154.8920	154.8920	0.0337	0.0000	155.7353

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					
2021	0.0367	0.3542	0.3355	6.9000e-004	0.0179	0.0176	0.0355	5.2600e-003	0.0163	0.0215	0.0000	62.1460	62.1460	0.0138	0.0000	62.4920
2022	0.2302	0.7843	0.8547	1.7300e-003	0.0434	0.0381	0.0815	0.0117	0.0353	0.0470	0.0000	154.8919	154.8919	0.0337	0.0000	155.7351
2023	0.1312	0.0428	0.0647	1.2000e-004	2.5700e-003	2.3200e-003	4.8900e-003	6.8000e-004	2.3200e-003	3.0000e-003	0.0000	10.4767	10.4767	5.4000e-004	0.0000	10.4901
Maximum	0.2302	0.7843	0.8547	1.7300e-003	0.0434	0.0381	0.0815	0.0117	0.0353	0.0470	0.0000	154.8919	154.8919	0.0337	0.0000	155.7351

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	ROG	NOx	CO	SO2	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	3.42	0.00	1.82	6.19	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2021	11-30-2021	0.2770	0.2770
2	12-1-2021	2-28-2022	0.2929	0.2929
3	3-1-2022	5-31-2022	0.2859	0.2859
4	6-1-2022	8-31-2022	0.2855	0.2855
5	9-1-2022	11-30-2022	0.1998	0.1998
6	12-1-2022	2-28-2023	0.1736	0.1736
7	3-1-2023	5-31-2023	0.0613	0.0613
		Highest	0.2929	0.2929

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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	0.3492	9.6900e-003	0.7408	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5619
Energy	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	72.6261	72.6261	2.5000e-003	1.0000e-003	72.9867
Mobile	0.0633	0.2715	0.7118	3.1300e-003	0.3400	2.5300e-003	0.3425	0.0915	2.3600e-003	0.0938	0.0000	289.9421	289.9421	0.0112	0.0000	290.2230
Waste						0.0000	0.0000		0.0000	0.0000	6.5363	0.0000	6.5363	0.3863	0.0000	16.1934
Water						0.0000	0.0000		0.0000	0.0000	1.1575	4.0355	5.1931	0.1191	2.8500e-003	9.0187
Total	0.4157	0.3093	1.4646	3.7800e-003	0.3400	0.0395	0.3795	0.0915	0.0393	0.1308	10.8851	368.7636	379.6487	0.5250	4.0600e-003	393.9838

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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	0.3492	9.6900e-003	0.7408	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5619
Energy	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	72.6261	72.6261	2.5000e-003	1.0000e-003	72.9867
Mobile	0.0633	0.2715	0.7118	3.1300e-003	0.3400	2.5300e-003	0.3425	0.0915	2.3600e-003	0.0938	0.0000	289.9421	289.9421	0.0112	0.0000	290.2230
Waste						0.0000	0.0000		0.0000	0.0000	6.5363	0.0000	6.5363	0.3863	0.0000	16.1934
Water						0.0000	0.0000		0.0000	0.0000	1.1575	4.0355	5.1931	0.1191	2.8500e-003	9.0187
Total	0.4157	0.3093	1.4646	3.7800e-003	0.3400	0.0395	0.3795	0.0915	0.0393	0.1308	10.8851	368.7636	379.6487	0.5250	4.0600e-003	393.9838

	ROG	NOx	CO	SO2	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 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/15/2021	9/15/2021	5	1	
2	Grading	Grading	9/16/2021	9/29/2021	5	10	
3	Building Construction	Building Construction	9/29/2021	9/13/2022	5	250	
4	Paving	Paving	9/13/2022	9/19/2022	5	5	
5	Architectural Coating	Architectural Coating	9/19/2022	4/1/2023	5	140	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 76,936; Residential Outdoor: 25,645; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	50.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Site Preparation - 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					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-004	3.9100e-003	2.0100e-003	0.0000		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310
Total	3.2000e-004	3.9100e-003	2.0100e-003	0.0000	2.7000e-004	1.5000e-004	4.2000e-004	3.0000e-005	1.4000e-004	1.7000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0181	0.0181	0.0000	0.0000	0.0181
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0181	0.0181	0.0000	0.0000	0.0181

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3.2 Site Preparation - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-004	3.9100e-003	2.0100e-003	0.0000		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310
Total	3.2000e-004	3.9100e-003	2.0100e-003	0.0000	1.2000e-004	1.5000e-004	2.7000e-004	1.0000e-005	1.4000e-004	1.5000e-004	0.0000	0.4276	0.4276	1.4000e-004	0.0000	0.4310

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0181	0.0181	0.0000	0.0000	0.0181
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0181	0.0181	0.0000	0.0000	0.0181

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3.3 Grading - 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					
Fugitive Dust					3.8500e-003	0.0000	3.8500e-003	2.0800e-003	0.0000	2.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0363	0.0379	6.0000e-005		2.0400e-003	2.0400e-003		1.9400e-003	1.9400e-003	0.0000	5.2047	5.2047	9.7000e-004	0.0000	5.2289
Total	3.9800e-003	0.0363	0.0379	6.0000e-005	3.8500e-003	2.0400e-003	5.8900e-003	2.0800e-003	1.9400e-003	4.0200e-003	0.0000	5.2047	5.2047	9.7000e-004	0.0000	5.2289

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	2.8000e-004	0.0121	3.9600e-003	3.0000e-005	6.3000e-004	3.0000e-005	6.6000e-004	1.7000e-004	3.0000e-005	2.1000e-004	0.0000	3.2905	3.2905	6.0000e-004	0.0000	3.3056
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	1.4000e-004	9.0000e-005	1.0400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3621	0.3621	1.0000e-005	0.0000	0.3623
Total	4.2000e-004	0.0122	5.0000e-003	3.0000e-005	1.0300e-003	3.0000e-005	1.0600e-003	2.8000e-004	3.0000e-005	3.2000e-004	0.0000	3.6526	3.6526	6.1000e-004	0.0000	3.6679

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3.3 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7300e-003	0.0000	1.7300e-003	9.4000e-004	0.0000	9.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0363	0.0379	6.0000e-005		2.0400e-003	2.0400e-003		1.9400e-003	1.9400e-003	0.0000	5.2047	5.2047	9.7000e-004	0.0000	5.2289
Total	3.9800e-003	0.0363	0.0379	6.0000e-005	1.7300e-003	2.0400e-003	3.7700e-003	9.4000e-004	1.9400e-003	2.8800e-003	0.0000	5.2047	5.2047	9.7000e-004	0.0000	5.2289

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	2.8000e-004	0.0121	3.9600e-003	3.0000e-005	6.3000e-004	3.0000e-005	6.6000e-004	1.7000e-004	3.0000e-005	2.1000e-004	0.0000	3.2905	3.2905	6.0000e-004	0.0000	3.3056
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	1.4000e-004	9.0000e-005	1.0400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3621	0.3621	1.0000e-005	0.0000	0.3623
Total	4.2000e-004	0.0122	5.0000e-003	3.0000e-005	1.0300e-003	3.0000e-005	1.0600e-003	2.8000e-004	3.0000e-005	3.2000e-004	0.0000	3.6526	3.6526	6.1000e-004	0.0000	3.6679

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3.4 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	0.0264	0.2715	0.2470	3.9000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	34.0279	34.0279	0.0110	0.0000	34.3030
Total	0.0264	0.2715	0.2470	3.9000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	34.0279	34.0279	0.0110	0.0000	34.3030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0273	8.3300e-003	6.0000e-005	1.5600e-003	6.0000e-005	1.6200e-003	4.5000e-004	6.0000e-005	5.1000e-004	0.0000	6.5043	6.5043	8.6000e-004	0.0000	6.5259
Worker	4.8400e-003	3.0900e-003	0.0353	1.4000e-004	0.0134	1.0000e-004	0.0135	3.5700e-003	9.0000e-005	3.6700e-003	0.0000	12.3110	12.3110	2.5000e-004	0.0000	12.3173
Total	5.5700e-003	0.0304	0.0437	2.0000e-004	0.0150	1.6000e-004	0.0152	4.0200e-003	1.5000e-004	4.1800e-003	0.0000	18.8152	18.8152	1.1100e-003	0.0000	18.8431

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3.4 Building Construction - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2715	0.2470	3.9000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	34.0279	34.0279	0.0110	0.0000	34.3030
Total	0.0264	0.2715	0.2470	3.9000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	34.0279	34.0279	0.0110	0.0000	34.3030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0273	8.3300e-003	6.0000e-005	1.5600e-003	6.0000e-005	1.6200e-003	4.5000e-004	6.0000e-005	5.1000e-004	0.0000	6.5043	6.5043	8.6000e-004	0.0000	6.5259
Worker	4.8400e-003	3.0900e-003	0.0353	1.4000e-004	0.0134	1.0000e-004	0.0135	3.5700e-003	9.0000e-005	3.6700e-003	0.0000	12.3110	12.3110	2.5000e-004	0.0000	12.3173
Total	5.5700e-003	0.0304	0.0437	2.0000e-004	0.0150	1.6000e-004	0.0152	4.0200e-003	1.5000e-004	4.1800e-003	0.0000	18.8152	18.8152	1.1100e-003	0.0000	18.8431

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3.4 Building Construction - 2022**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	0.0625	0.6393	0.6509	1.0400e-003		0.0339	0.0339		0.0311	0.0311	0.0000	91.1344	91.1344	0.0295	0.0000	91.8713
Total	0.0625	0.6393	0.6509	1.0400e-003		0.0339	0.0339		0.0311	0.0311	0.0000	91.1344	91.1344	0.0295	0.0000	91.8713

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0691	0.0219	1.7000e-004	4.1600e-003	1.4000e-004	4.3100e-003	1.2000e-003	1.4000e-004	1.3400e-003	0.0000	17.1787	17.1787	2.2800e-003	0.0000	17.2356
Worker	0.0122	7.4700e-003	0.0882	3.5000e-004	0.0360	2.7000e-004	0.0362	9.5600e-003	2.5000e-004	9.8100e-003	0.0000	31.7265	31.7265	6.1000e-004	0.0000	31.7418
Total	0.0140	0.0766	0.1100	5.2000e-004	0.0401	4.1000e-004	0.0405	0.0108	3.9000e-004	0.0112	0.0000	48.9051	48.9051	2.8900e-003	0.0000	48.9774

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3.4 Building Construction - 2022**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	0.0625	0.6393	0.6509	1.0400e-003		0.0339	0.0339		0.0311	0.0311	0.0000	91.1343	91.1343	0.0295	0.0000	91.8712
Total	0.0625	0.6393	0.6509	1.0400e-003		0.0339	0.0339		0.0311	0.0311	0.0000	91.1343	91.1343	0.0295	0.0000	91.8712

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0691	0.0219	1.7000e-004	4.1600e-003	1.4000e-004	4.3100e-003	1.2000e-003	1.4000e-004	1.3400e-003	0.0000	17.1787	17.1787	2.2800e-003	0.0000	17.2356
Worker	0.0122	7.4700e-003	0.0882	3.5000e-004	0.0360	2.7000e-004	0.0362	9.5600e-003	2.5000e-004	9.8100e-003	0.0000	31.7265	31.7265	6.1000e-004	0.0000	31.7418
Total	0.0140	0.0766	0.1100	5.2000e-004	0.0401	4.1000e-004	0.0405	0.0108	3.9000e-004	0.0112	0.0000	48.9051	48.9051	2.8900e-003	0.0000	48.9774

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3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	7.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3138	0.3138	1.0000e-005	0.0000	0.3139
Total	1.2000e-004	7.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3138	0.3138	1.0000e-005	0.0000	0.3139

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3.5 Paving - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	7.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3138	0.3138	1.0000e-005	0.0000	0.3139
Total	1.2000e-004	7.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3138	0.3138	1.0000e-005	0.0000	0.3139

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3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6700e-003	0.0528	0.0680	1.1000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	9.5747	9.5747	6.2000e-004	0.0000	9.5903
Total	0.1510	0.0528	0.0680	1.1000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	9.5747	9.5747	6.2000e-004	0.0000	9.5903

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	6.2000e-004	7.2700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6148	2.6148	5.0000e-005	0.0000	2.6161
Total	1.0100e-003	6.2000e-004	7.2700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6148	2.6148	5.0000e-005	0.0000	2.6161

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3.6 Architectural Coating - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1433					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6700e-003	0.0528	0.0680	1.1000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	9.5747	9.5747	6.2000e-004	0.0000	9.5903
Total	0.1510	0.0528	0.0680	1.1000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	9.5747	9.5747	6.2000e-004	0.0000	9.5903

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	6.2000e-004	7.2700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6148	2.6148	5.0000e-005	0.0000	2.6161
Total	1.0100e-003	6.2000e-004	7.2700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.6148	2.6148	5.0000e-005	0.0000	2.6161

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3.6 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2300e-003	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105
Total	0.1304	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105

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	8.3000e-004	4.8000e-004	5.8800e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1787	2.1787	4.0000e-005	0.0000	2.1796
Total	8.3000e-004	4.8000e-004	5.8800e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1787	2.1787	4.0000e-005	0.0000	2.1796

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3.6 Architectural Coating - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2300e-003	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105
Total	0.1304	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105

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	8.3000e-004	4.8000e-004	5.8800e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1787	2.1787	4.0000e-005	0.0000	2.1796
Total	8.3000e-004	4.8000e-004	5.8800e-003	2.0000e-005	2.5700e-003	2.0000e-005	2.5900e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.1787	2.1787	4.0000e-005	0.0000	2.1796

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0633	0.2715	0.7118	3.1300e-003	0.3400	2.5300e-003	0.3425	0.0915	2.3600e-003	0.0938	0.0000	289.9421	289.9421	0.0112	0.0000	290.2230
Unmitigated	0.0633	0.2715	0.7118	3.1300e-003	0.3400	2.5300e-003	0.3425	0.0915	2.3600e-003	0.0938	0.0000	289.9421	289.9421	0.0112	0.0000	290.2230

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	380.80	447.30	410.20	911,140	911,140
Total	380.80	447.30	410.20	911,140	911,140

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.602408	0.036316	0.193185	0.092029	0.012351	0.005268	0.034818	0.009679	0.004284	0.002352	0.005755	0.000958	0.000595

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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	40.0139	40.0139	1.8800e-003	4.0000e-004	40.1807
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	40.0139	40.0139	1.8800e-003	4.0000e-004	40.1807
NaturalGas Mitigated	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060
NaturalGas Unmitigated	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060

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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	611130	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060
Total		3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060

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	611130	3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060
Total		3.3000e-003	0.0282	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6122	32.6122	6.3000e-004	6.0000e-004	32.8060

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	295539	40.0139	1.8800e-003	4.0000e-004	40.1807
Total		40.0139	1.8800e-003	4.0000e-004	40.1807

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	295539	40.0139	1.8800e-003	4.0000e-004	40.1807
Total		40.0139	1.8800e-003	4.0000e-004	40.1807

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3492	9.6900e-003	0.7408	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5619
Unmitigated	0.3492	9.6900e-003	0.7408	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5619

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	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1615	3.7200e-003	0.2224	4.4000e-004		0.0318	0.0318		0.0318	0.0318	3.1913	1.3108	4.5021	5.1300e-003	2.1000e-004	4.6927
Landscaping	0.0155	5.9800e-003	0.5184	3.0000e-005		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	0.8490	0.8490	8.1000e-004	0.0000	0.8692
Total	0.3492	9.7000e-003	0.7408	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5619

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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	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1615	3.7200e-003	0.2224	4.4000e-004		0.0318	0.0318		0.0318	0.0318	3.1913	1.3108	4.5021	5.1300e-003	2.1000e-004	4.6927
Landscaping	0.0155	5.9800e-003	0.5184	3.0000e-005		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	0.8490	0.8490	8.1000e-004	0.0000	0.8692
Total	0.3492	9.7000e-003	0.7408	4.7000e-004		0.0347	0.0347		0.0347	0.0347	3.1913	2.1598	5.3511	5.9400e-003	2.1000e-004	5.5619

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.1931	0.1191	2.8500e-003	9.0187
Unmitigated	5.1931	0.1191	2.8500e-003	9.0187

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.64863 / 2.87528	5.1931	0.1191	2.8500e-003	9.0187
Total		5.1931	0.1191	2.8500e-003	9.0187

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.64863 / 2.87528	5.1931	0.1191	2.8500e-003	9.0187
Total		5.1931	0.1191	2.8500e-003	9.0187

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.5363	0.3863	0.0000	16.1934
Unmitigated	6.5363	0.3863	0.0000	16.1934

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	32.2	6.5363	0.3863	0.0000	16.1934
Total		6.5363	0.3863	0.0000	16.1934

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	32.2	6.5363	0.3863	0.0000	16.1934
Total		6.5363	0.3863	0.0000	16.1934

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

N2O Operational GHG Emission Mobile Calculations

180 Jones

Vehicle Population Breakdown*	
315000	Gasoline vehicles
17110	Diesel vehicles
94.8%	Gasoline vehicle %
5.2%	Diesel vehicle %

VMT per Vehicle Type	
911140	Project VMT (CalEEMod output)
864198	Gasoline vehicle VMT
46942	Diesel vehicle VMT

Gasoline Vehicles	
94.8%	Gasoline vehicle %
0.7118	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.68	Gasoline vehicle tons per year NOX emissions
0.0465	Tons per year N2O emissions for gasoline vehicles**
0.0422	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
21.40	Diesel average miles per gallon*
0.07476	grams per mile N2O for diesel vehicles
3509.2	grams per year N2O for diesel vehicles
0.0035092	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0457	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
13.6	CO2e emissions per year from N2O emissions from gasoline + diesel vehicles

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

Post-2020, Pre-2030 Projects

	2008	2030
Percent procurement	14.1	60
CO2 (lbs/MWh)	641	298.49
CH4 (lbs/MWh)	0.029	0.014
N2O (lbs/MWh)	0.00617	0.003

Sources for Historical Renewables Procurement

PG&E	2009	14.1%	California Public Utilities Commission (CPUC). 2011. Renewables Portfolio Standard Quarterly Report. 1st Quarter 2011. http://www.cpuc.ca.gov/WorkArea/DownloadAsset.aspx?id=5858
SDG&E	2009	10.2%	California Public Utilities Commission (CPUC). 2011. Renewables Portfolio Standard Quarterly Report. 1st Quarter 2011. http://www.cpuc.ca.gov/WorkArea/DownloadAsset.aspx?id=5858
SCE	2012	20.6%	Southern California Edison. 2012. 2012 Corporate Responsibility & Sustainability. https://www1.sce.com/wps/wcm/connect/68145014-2eba-40c2-8587-6482ce056977/CRR_08202013.pdf?MOD=AJPERES&ContentCache=NONE
Other Utilities			California Energy Commission. https://ww2.energy.ca.gov/pcl/power_content_label.html

Post-2030, Pre-2045 Projects

	2009	2030	2040	2045
Percent procurement	14	60	86.67	100
CO2 (lbs/MWh)	641.35	298.49	99.50	0
CH4 (lbs/MWh)	0.029	0.014	0.005	0
N2O (lbs/MWh)	0.006	0.003	0.001	0