



11.4 Air Quality/GHG/Energy Analysis

Tina Pacific Neighborhood Development Plan Project - Los Angeles-South Coast County, Annual

Tina Pacific Neighborhood Development Plan Project
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	83.00	Dwelling Unit	5.19	83,000.00	237
Condo/Townhouse	78.00	Dwelling Unit	4.88	78,000.00	223

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	549	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per SCE 2017 Sustainability
 Land Use -
 Construction Phase - Phase I: 83 units
 Phase II: 78 units
 Demolition -
 Vehicle Trips - 484 net new daily vehicle trips
 Woodstoves -
 Area Coating -
 Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -
 Area Mitigation -
 Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	60.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	5.67	3.01
tblVehicleTrips	SU_TR	4.84	3.01
tblVehicleTrips	WD_TR	5.81	3.01

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0469	0.4970	0.3151	6.7000e-004	0.0786	0.0225	0.1010	0.0126	0.0209	0.0335	0.0000	59.4886	59.4886	0.0145	0.0000	59.8499
2021	0.4372	3.9002	3.6018	7.3900e-003	0.3189	0.1837	0.5026	0.1007	0.1714	0.2721	0.0000	652.7877	652.7877	0.1314	0.0000	656.0733
2022	0.6765	1.3980	1.7400	3.4100e-003	0.0924	0.0673	0.1597	0.0247	0.0631	0.0878	0.0000	301.3071	301.3071	0.0556	0.0000	302.6980

Maximum	0.6765	3.9002	3.6018	7.3900e-003	0.3189	0.1837	0.5026	0.1007	0.1714	0.2721	0.0000	652.7877	652.7877	0.1314	0.0000	656.0733
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0469	0.4970	0.3151	6.7000e-004	0.0341	0.0225	0.0566	5.8500e-003	0.0209	0.0267	0.0000	59.4885	59.4885	0.0145	0.0000	59.8498
2021	0.4372	3.9002	3.6018	7.3900e-003	0.2295	0.1837	0.4132	0.0673	0.1714	0.2387	0.0000	652.7872	652.7872	0.1314	0.0000	656.0728
2022	0.6765	1.3980	1.7400	3.4100e-003	0.0924	0.0673	0.1597	0.0247	0.0631	0.0878	0.0000	301.3068	301.3068	0.0556	0.0000	302.6977
Maximum	0.6765	3.9002	3.6018	7.3900e-003	0.2295	0.1837	0.4132	0.0673	0.1714	0.2387	0.0000	652.7872	652.7872	0.1314	0.0000	656.0728

	ROG	NOx	CO	SO2	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	27.33	0.00	17.54	29.07	0.00	10.20	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	12-1-2020	2-28-2021	2.0675	2.0675
2	3-1-2021	5-31-2021	1.1185	1.1185
3	6-1-2021	8-31-2021	0.7187	0.7187
4	9-1-2021	11-30-2021	0.7129	0.7129
5	12-1-2021	2-28-2022	0.6604	0.6604
6	3-1-2022	5-31-2022	0.6487	0.6487
7	6-1-2022	8-31-2022	0.4438	0.4438
8	9-1-2022	9-30-2022	0.2010	0.2010
		Highest	2.0675	2.0675

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	1.7369	0.1027	3.7076	5.3100e-003		0.3167	0.3167		0.3167	0.3167	34.2025	68.4377	102.6402	0.1046	2.3200e-003	105.9472
Energy	0.0153	0.1309	0.0557	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	350.8045	350.8045	0.0134	4.9600e-003	352.6172
Mobile	0.1377	0.6289	1.9298	7.3500e-003	0.6285	5.5600e-003	0.6341	0.1685	5.1700e-003	0.1736	0.0000	679.4964	679.4964	0.0332	0.0000	680.3263
Waste						0.0000	0.0000		0.0000	0.0000	15.0335	0.0000	15.0335	0.8885	0.0000	37.2449
Water						0.0000	0.0000		0.0000	0.0000	3.3279	52.3095	55.6374	0.3446	8.6400e-003	66.8273
Total	1.8899	0.8624	5.6931	0.0135	0.6285	0.3328	0.9613	0.1685	0.3324	0.5009	52.5640	1,151.0481	1,203.6121	1.3843	0.0159	1,242.9629

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	0.6822	0.0191	1.6607	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7121	2.7121	2.6100e-003	0.0000	2.7773
Energy	0.0143	0.1219	0.0519	7.8000e-004		9.8600e-003	9.8600e-003		9.8600e-003	9.8600e-003	0.0000	339.6920	339.6920	0.0132	4.7600e-003	341.4396
Mobile	0.1351	0.6148	1.8652	7.0700e-003	0.6034	5.3600e-003	0.6087	0.1617	4.9800e-003	0.1667	0.0000	653.7772	653.7772	0.0321	0.0000	654.5785
Waste						0.0000	0.0000		0.0000	0.0000	15.0335	0.0000	15.0335	0.8885	0.0000	37.2449
Water						0.0000	0.0000		0.0000	0.0000	3.3279	52.3095	55.6374	0.3446	8.6400e-003	66.8273
Total	0.8316	0.7558	3.5778	7.9400e-003	0.6034	0.0244	0.6278	0.1617	0.0240	0.1858	18.3614	1,048.4908	1,066.8522	1.2809	0.0134	1,102.8676

	ROG	NOx	CO	SO2	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	56.00	12.36	37.16	41.19	4.00	92.67	34.69	4.00	92.77	62.91	65.07	8.91	11.36	7.47	15.83	11.27

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2020	1/25/2021	5	40	
2	Grading	Grading	12/29/2020	3/22/2021	5	60	
3	Building Construction	Building Construction	2/9/2021	6/13/2022	5	350	
4	Paving	Paving	6/13/2022	9/2/2022	5	60	
5	Architectural Coating	Architectural Coating	9/2/2022	11/24/2022	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 326,025; Residential Outdoor: 108,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	116.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

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

Fugitive Dust					0.0285	0.0000	0.0285	4.3200e-003	0.0000	4.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0381	0.3818	0.2502	4.5000e-004		0.0191	0.0191		0.0177	0.0177	0.0000	39.0984	39.0984	0.0110	0.0000	39.3743
Total	0.0381	0.3818	0.2502	4.5000e-004	0.0285	0.0191	0.0476	4.3200e-003	0.0177	0.0221	0.0000	39.0984	39.0984	0.0110	0.0000	39.3743

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1600e-003	0.0391	8.6200e-003	1.0000e-004	3.5200e-003	1.2000e-004	3.6400e-003	9.3000e-004	1.2000e-004	1.0500e-003	0.0000	10.1493	10.1493	7.1000e-004	0.0000	10.1670
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	8.0000e-004	6.4000e-004	7.1000e-003	2.0000e-005	1.8900e-003	2.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.7618	1.7618	6.0000e-005	0.0000	1.7632
Total	1.9600e-003	0.0397	0.0157	1.2000e-004	5.4100e-003	1.4000e-004	5.5500e-003	1.4300e-003	1.3000e-004	1.5700e-003	0.0000	11.9111	11.9111	7.7000e-004	0.0000	11.9302

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0381	0.3818	0.2502	4.5000e-004		0.0191	0.0191		0.0177	0.0177	0.0000	39.0984	39.0984	0.0110	0.0000	39.3743
Total	0.0381	0.3818	0.2502	4.5000e-004	0.0111	0.0191	0.0302	1.6800e-003	0.0177	0.0194	0.0000	39.0984	39.0984	0.0110	0.0000	39.3743

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1600e-003	0.0391	8.6200e-003	1.0000e-004	3.5200e-003	1.2000e-004	3.6400e-003	9.3000e-004	1.2000e-004	1.0500e-003	0.0000	10.1493	10.1493	7.1000e-004	0.0000	10.1670
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	8.0000e-004	6.4000e-004	7.1000e-003	2.0000e-005	1.8900e-003	2.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.7618	1.7618	6.0000e-005	0.0000	1.7632
Total	1.9600e-003	0.0397	0.0157	1.2000e-004	5.4100e-003	1.4000e-004	5.5500e-003	1.4300e-003	1.3000e-004	1.5700e-003	0.0000	11.9111	11.9111	7.7000e-004	0.0000	11.9302

3.2 Demolition - 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					0.0211	0.0000	0.0211	3.1900e-003	0.0000	3.1900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.2673	0.1833	3.3000e-004		0.0132	0.0132		0.0123	0.0123	0.0000	28.9007	28.9007	8.1300e-003	0.0000	29.1040
Total	0.0269	0.2673	0.1833	3.3000e-004	0.0211	0.0132	0.0343	3.1900e-003	0.0123	0.0154	0.0000	28.9007	28.9007	8.1300e-003	0.0000	29.1040

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
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Category	tons/yr										MT/yr					
Hauling	8.2000e-004	0.0269	6.2800e-003	8.0000e-005	3.3700e-003	8.0000e-005	3.4500e-003	8.8000e-004	8.0000e-005	9.5000e-004	0.0000	7.4191	7.4191	5.1000e-004	0.0000	7.4319
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	5.5000e-004	4.3000e-004	4.8200e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2609	1.2609	4.0000e-005	0.0000	1.2618
Total	1.3700e-003	0.0274	0.0111	9.0000e-005	4.7700e-003	9.0000e-005	4.8600e-003	1.2500e-003	9.0000e-005	1.3300e-003	0.0000	8.6799	8.6799	5.5000e-004	0.0000	8.6937

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					8.2200e-003	0.0000	8.2200e-003	1.2500e-003	0.0000	1.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.2673	0.1833	3.3000e-004		0.0132	0.0132		0.0123	0.0123	0.0000	28.9006	28.9006	8.1300e-003	0.0000	29.1040
Total	0.0269	0.2673	0.1833	3.3000e-004	8.2200e-003	0.0132	0.0214	1.2500e-003	0.0123	0.0135	0.0000	28.9006	28.9006	8.1300e-003	0.0000	29.1040

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.2000e-004	0.0269	6.2800e-003	8.0000e-005	3.3700e-003	8.0000e-005	3.4500e-003	8.8000e-004	8.0000e-005	9.5000e-004	0.0000	7.4191	7.4191	5.1000e-004	0.0000	7.4319
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	5.5000e-004	4.3000e-004	4.8200e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2609	1.2609	4.0000e-005	0.0000	1.2618

Total	1.3700e-003	0.0274	0.0111	9.0000e-005	4.7700e-003	9.0000e-005	4.8600e-003	1.2500e-003	9.0000e-005	1.3300e-003	0.0000	8.6799	8.6799	5.5000e-004	0.0000	8.6937
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3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0443	0.0000	0.0443	6.7800e-003	0.0000	6.7800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6800e-003	0.0753	0.0479	9.0000e-005		3.2600e-003	3.2600e-003		3.0000e-003	3.0000e-003	0.0000	8.1726	8.1726	2.6400e-003	0.0000	8.2387
Total	6.6800e-003	0.0753	0.0479	9.0000e-005	0.0443	3.2600e-003	0.0476	6.7800e-003	3.0000e-003	9.7800e-003	0.0000	8.1726	8.1726	2.6400e-003	0.0000	8.2387

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	1.4000e-004	1.1000e-004	1.2300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3064	0.3064	1.0000e-005	0.0000	0.3067
Total	1.4000e-004	1.1000e-004	1.2300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3064	0.3064	1.0000e-005	0.0000	0.3067

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0173	0.0000	0.0173	2.6400e-003	0.0000	2.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6800e-003	0.0753	0.0479	9.0000e-005		3.2600e-003	3.2600e-003		3.0000e-003	3.0000e-003	0.0000	8.1726	8.1726	2.6400e-003	0.0000	8.2387
Total	6.6800e-003	0.0753	0.0479	9.0000e-005	0.0173	3.2600e-003	0.0205	2.6400e-003	3.0000e-003	5.6400e-003	0.0000	8.1726	8.1726	2.6400e-003	0.0000	8.2387

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	1.4000e-004	1.1000e-004	1.2300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3064	0.3064	1.0000e-005	0.0000	0.3067
Total	1.4000e-004	1.1000e-004	1.2300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3064	0.3064	1.0000e-005	0.0000	0.3067

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					0.1256	0.0000	0.1256	0.0515	0.0000	0.0515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.1195	1.3224	0.8800	1.7700e-003		0.0566	0.0566		0.0521	0.0521	0.0000	155.3107	155.3107	0.0502	0.0000	156.5665	
Total	0.1195	1.3224	0.8800	1.7700e-003		0.1256	0.0566	0.1822	0.0515	0.0521	0.1035	0.0000	155.3107	155.3107	0.0502	0.0000	156.5665

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4500e-003	1.9100e-003	0.0216	6.0000e-005	6.2500e-003	5.0000e-005	6.3000e-003	1.6600e-003	5.0000e-005	1.7100e-003	0.0000	5.6368	5.6368	1.7000e-004	0.0000	5.6410
Total	2.4500e-003	1.9100e-003	0.0216	6.0000e-005	6.2500e-003	5.0000e-005	6.3000e-003	1.6600e-003	5.0000e-005	1.7100e-003	0.0000	5.6368	5.6368	1.7000e-004	0.0000	5.6410

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0490	0.0000	0.0490	0.0201	0.0000	0.0201	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1195	1.3224	0.8800	1.7700e-003		0.0566	0.0566		0.0521	0.0521	0.0000	155.3105	155.3105	0.0502	0.0000	156.5663
Total	0.1195	1.3224	0.8800	1.7700e-003	0.0490	0.0566	0.1056	0.0201	0.0521	0.0721	0.0000	155.3105	155.3105	0.0502	0.0000	156.5663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4500e-003	1.9100e-003	0.0216	6.0000e-005	6.2500e-003	5.0000e-005	6.3000e-003	1.6600e-003	5.0000e-005	1.7100e-003	0.0000	5.6368	5.6368	1.7000e-004	0.0000	5.6410
Total	2.4500e-003	1.9100e-003	0.0216	6.0000e-005	6.2500e-003	5.0000e-005	6.3000e-003	1.6600e-003	5.0000e-005	1.7100e-003	0.0000	5.6368	5.6368	1.7000e-004	0.0000	5.6410

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	0.2224	2.0396	1.9393	3.1500e-003		0.1122	0.1122		0.1055	0.1055	0.0000	271.0156	271.0156	0.0654	0.0000	272.6502
Total	0.2224	2.0396	1.9393	3.1500e-003		0.1122	0.1122		0.1055	0.1055	0.0000	271.0156	271.0156	0.0654	0.0000	272.6502

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
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1800e-003	0.1963	0.0532	5.1000e-004	0.0125	4.0000e-004	0.0129	3.6200e-003	3.8000e-004	4.0000e-003	0.0000	49.0282	49.0282	3.0100e-003	0.0000	49.1034
Worker	0.0584	0.0455	0.5132	1.4900e-003	0.1487	1.2300e-003	0.1500	0.0395	1.1300e-003	0.0406	0.0000	134.2158	134.2158	3.9500e-003	0.0000	134.3146
Total	0.0646	0.2418	0.5665	2.0000e-003	0.1613	1.6300e-003	0.1629	0.0431	1.5100e-003	0.0446	0.0000	183.2440	183.2440	6.9600e-003	0.0000	183.4179

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	0.2224	2.0396	1.9393	3.1500e-003		0.1122	0.1122		0.1055	0.1055	0.0000	271.0153	271.0153	0.0654	0.0000	272.6499
Total	0.2224	2.0396	1.9393	3.1500e-003		0.1122	0.1122		0.1055	0.1055	0.0000	271.0153	271.0153	0.0654	0.0000	272.6499

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	6.1800e-003	0.1963	0.0532	5.1000e-004	0.0125	4.0000e-004	0.0129	3.6200e-003	3.8000e-004	4.0000e-003	0.0000	49.0282	49.0282	3.0100e-003	0.0000	49.1034
Worker	0.0584	0.0455	0.5132	1.4900e-003	0.1487	1.2300e-003	0.1500	0.0395	1.1300e-003	0.0406	0.0000	134.2158	134.2158	3.9500e-003	0.0000	134.3146

Total	0.0646	0.2418	0.5665	2.0000e-003	0.1613	1.6300e-003	0.1629	0.0431	1.5100e-003	0.0446	0.0000	183.2440	183.2440	6.9600e-003	0.0000	183.4179
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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	0.0990	0.9057	0.9491	1.5600e-003		0.0469	0.0469		0.0442	0.0442	0.0000	134.4006	134.4006	0.0322	0.0000	135.2056
Total	0.0990	0.9057	0.9491	1.5600e-003		0.0469	0.0469		0.0442	0.0442	0.0000	134.4006	134.4006	0.0322	0.0000	135.2056

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8700e-003	0.0925	0.0250	2.5000e-004	6.2100e-003	1.7000e-004	6.3800e-003	1.7900e-003	1.7000e-004	1.9600e-003	0.0000	24.0911	24.0911	1.4400e-003	0.0000	24.1271
Worker	0.0272	0.0204	0.2344	7.1000e-004	0.0737	5.9000e-004	0.0743	0.0196	5.4000e-004	0.0201	0.0000	64.1955	64.1955	1.7700e-003	0.0000	64.2397
Total	0.0300	0.1128	0.2594	9.6000e-004	0.0799	7.6000e-004	0.0807	0.0214	7.1000e-004	0.0221	0.0000	88.2866	88.2866	3.2100e-003	0.0000	88.3668

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	0.0990	0.9057	0.9491	1.5600e-003		0.0469	0.0469		0.0442	0.0442	0.0000	134.4005	134.4005	0.0322	0.0000	135.2054
Total	0.0990	0.9057	0.9491	1.5600e-003		0.0469	0.0469		0.0442	0.0442	0.0000	134.4005	134.4005	0.0322	0.0000	135.2054

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8700e-003	0.0925	0.0250	2.5000e-004	6.2100e-003	1.7000e-004	6.3800e-003	1.7900e-003	1.7000e-004	1.9600e-003	0.0000	24.0911	24.0911	1.4400e-003	0.0000	24.1271
Worker	0.0272	0.0204	0.2344	7.1000e-004	0.0737	5.9000e-004	0.0743	0.0196	5.4000e-004	0.0201	0.0000	64.1955	64.1955	1.7700e-003	0.0000	64.2397
Total	0.0300	0.1128	0.2594	9.6000e-004	0.0799	7.6000e-004	0.0807	0.0214	7.1000e-004	0.0221	0.0000	88.2866	88.2866	3.2100e-003	0.0000	88.3668

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	0.0331	0.3338	0.4374	6.8000e-004		0.0170	0.0170		0.0157	0.0157	0.0000	60.0827	60.0827	0.0194	0.0000	60.5685
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0331	0.3338	0.4374	6.8000e-004		0.0170	0.0170		0.0157	0.0157	0.0000	60.0827	60.0827	0.0194	0.0000	60.5685

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	1.8200e-003	1.3600e-003	0.0157	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.2937	4.2937	1.2000e-004	0.0000	4.2967
Total	1.8200e-003	1.3600e-003	0.0157	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.2937	4.2937	1.2000e-004	0.0000	4.2967

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	0.0331	0.3338	0.4374	6.8000e-004		0.0170	0.0170		0.0157	0.0157	0.0000	60.0826	60.0826	0.0194	0.0000	60.5684
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0331	0.3338	0.4374	6.8000e-004		0.0170	0.0170		0.0157	0.0157	0.0000	60.0826	60.0826	0.0194	0.0000	60.5684

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	1.8200e-003	1.3600e-003	0.0157	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.2937	4.2937	1.2000e-004	0.0000	4.2967
Total	1.8200e-003	1.3600e-003	0.0157	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.2937	4.2937	1.2000e-004	0.0000	4.2967

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	0.5037					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722
Total	0.5099	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722

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
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7800e-003	2.0900e-003	0.0240	7.0000e-005	7.5600e-003	6.0000e-005	7.6200e-003	2.0100e-003	6.0000e-005	2.0600e-003	0.0000	6.5837	6.5837	1.8000e-004	0.0000	6.5882
Total	2.7800e-003	2.0900e-003	0.0240	7.0000e-005	7.5600e-003	6.0000e-005	7.6200e-003	2.0100e-003	6.0000e-005	2.0600e-003	0.0000	6.5837	6.5837	1.8000e-004	0.0000	6.5882

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5037					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722
Total	0.5099	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7800e-003	2.0900e-003	0.0240	7.0000e-005	7.5600e-003	6.0000e-005	7.6200e-003	2.0100e-003	6.0000e-005	2.0600e-003	0.0000	6.5837	6.5837	1.8000e-004	0.0000	6.5882

Total	2.7800e-003	2.0900e-003	0.0240	7.0000e-005	7.5600e-003	6.0000e-005	7.6200e-003	2.0100e-003	6.0000e-005	2.0600e-003	0.0000	6.5837	6.5837	1.8000e-004	0.0000	6.5882
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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1351	0.6148	1.8652	7.0700e-003	0.6034	5.3600e-003	0.6087	0.1617	4.9800e-003	0.1667	0.0000	653.7772	653.7772	0.0321	0.0000	654.5785
Unmitigated	0.1377	0.6289	1.9298	7.3500e-003	0.6285	5.5600e-003	0.6341	0.1685	5.1700e-003	0.1736	0.0000	679.4964	679.4964	0.0332	0.0000	680.3263

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	249.83	249.83	249.83	853,707	819,559
Condo/Townhouse	234.78	234.78	234.78	802,279	770,188
Total	484.61	484.61	484.61	1,655,986	1,589,747

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

Condo/Townhouse	1.37636e+006	7.4200e-003	0.0634	0.0270	4.0000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003	0.0000	73.4478	73.4478	1.4100e-003	1.3500e-003	73.8842
Condo/Townhouse	1.46459e+006	7.9000e-003	0.0675	0.0287	4.3000e-004		5.4600e-003	5.4600e-003		5.4600e-003	5.4600e-003	0.0000	78.1560	78.1560	1.5000e-003	1.4300e-003	78.6204
Total		0.0153	0.1309	0.0557	8.3000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	151.6037	151.6037	2.9100e-003	2.7800e-003	152.5046

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	1.28175e+006	6.9100e-003	0.0591	0.0251	3.8000e-004		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003	0.0000	68.3990	68.3990	1.3100e-003	1.2500e-003	68.8054
Condo/Townhouse	1.36391e+006	7.3500e-003	0.0629	0.0267	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	72.7835	72.7835	1.4000e-003	1.3300e-003	73.2160
Total		0.0143	0.1219	0.0519	7.8000e-004		9.8600e-003	9.8600e-003		9.8600e-003	9.8600e-003	0.0000	141.1825	141.1825	2.7100e-003	2.5800e-003	142.0214

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	387545	96.5072	5.1000e-003	1.0500e-003	96.9490
Condo/Townhouse	412387	102.6936	5.4200e-003	1.1200e-003	103.1636
Total		199.2008	0.0105	2.1700e-003	200.1126

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	386200	96.1723	5.0800e-003	1.0500e-003	96.6125
Condo/Townhouse	410956	102.3372	5.4100e-003	1.1200e-003	102.8057
Total		198.5095	0.0105	2.1700e-003	199.4182

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6822	0.0191	1.6607	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7121	2.7121	2.6100e-003	0.0000	2.7773
Unmitigated	1.7369	0.1027	3.7076	5.3100e-003		0.3167	0.3167		0.3167	0.3167	34.2025	68.4377	102.6402	0.1046	2.3200e-003	105.9472

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	0.0504					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5818					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.0547	0.0835	2.0469	5.2200e-003		0.3075	0.3075		0.3075	0.3075	34.2025	65.7255	99.9281	0.1020	2.3200e-003	103.1698
Landscaping	0.0500	0.0191	1.6607	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7121	2.7121	2.6100e-003	0.0000	2.7773
Total	1.7369	0.1027	3.7076	5.3100e-003		0.3167	0.3167		0.3167	0.3167	34.2025	68.4377	102.6402	0.1046	2.3200e-003	105.9472

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	0.0504					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5818					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0500	0.0191	1.6607	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7121	2.7121	2.6100e-003	0.0000	2.7773
Total	0.6822	0.0191	1.6607	9.0000e-005		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003	0.0000	2.7121	2.7121	2.6100e-003	0.0000	2.7773

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	55.6374	0.3446	8.6400e-003	66.8273
Unmitigated	55.6374	0.3446	8.6400e-003	66.8273

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	10.4898 / 6.61313	55.6374	0.3446	8.6400e-003	66.8273
Total		55.6374	0.3446	8.6400e-003	66.8273

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
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Land Use	Mgal	MT/yr			
Condo/Townhouse	10.4898 / 6.61313	55.6374	0.3446	8.6400e-003	66.8273
Total		55.6374	0.3446	8.6400e-003	66.8273

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.0335	0.8885	0.0000	37.2449
Unmitigated	15.0335	0.8885	0.0000	37.2449

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
		MT/yr			
Condo/Townhouse	74.06	15.0335	0.8885	0.0000	37.2449

Total		15.0335	0.8885	0.0000	37.2449
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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	74.06	15.0335	0.8885	0.0000	37.2449
Total		15.0335	0.8885	0.0000	37.2449

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



Tina Pacific Neighborhood Development Plan Project - Los Angeles-South Coast County, Summer

**Tina Pacific Neighborhood Development Plan Project
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	83.00	Dwelling Unit	5.19	83,000.00	237
Condo/Townhouse	78.00	Dwelling Unit	4.88	78,000.00	223

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	549	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per SCE 2017 Sustainability

Land Use -

Construction Phase - Phase I: 83 units

Phase II: 78 units

Demolition -

Vehicle Trips - 484 net new daily vehicle trips

Woodstoves -

Area Coating -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -
 Area Mitigation -
 Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	60.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	5.67	3.01
tblVehicleTrips	SU_TR	4.84	3.01
tblVehicleTrips	WD_TR	5.81	3.01

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.0233	86.8055	55.9735	0.1140	7.5205	3.8464	11.3669	2.3599	3.5549	5.9148	0.0000	11,145.1371	11,145.1371	3.0801	0.0000	11,222.1382
2021	7.6018	81.0150	54.5733	0.1138	7.6135	3.5493	11.1628	2.3827	3.2795	5.6623	0.0000	11,122.7388	11,122.7388	3.0752	0.0000	11,199.6191
2022	18.2502	28.6588	36.2201	0.0685	1.5731	1.3913	2.9644	0.4197	1.2970	1.7167	0.0000	6,664.5330	6,664.5330	1.3923	0.0000	6,699.3394

Maximum	18.2502	86.8055	55.9735	0.1140	7.6135	3.8464	11.3669	2.3827	3.5549	5.9148	0.0000	11,145.1371	11,145.1371	3.0801	0.0000	11,222.1382
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.0233	86.8055	55.9735	0.1140	3.3620	3.8464	7.2084	1.0339	3.5549	4.5888	0.0000	11,145.1371	11,145.1371	3.0801	0.0000	11,222.1382
2021	7.6018	81.0150	54.5733	0.1138	3.4550	3.5493	7.0042	1.1358	3.2795	4.3362	0.0000	11,122.7388	11,122.7388	3.0752	0.0000	11,199.6191
2022	18.2502	28.6588	36.2201	0.0685	1.5731	1.3913	2.9644	0.4197	1.2970	1.7167	0.0000	6,664.5330	6,664.5330	1.3923	0.0000	6,699.3394
Maximum	18.2502	86.8055	55.9735	0.1140	3.4550	3.8464	7.2084	1.1358	3.5549	4.5888	0.0000	11,145.1371	11,145.1371	3.0801	0.0000	11,222.1382

	ROG	NOx	CO	SO2	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	49.78	0.00	32.62	49.84	0.00	19.95	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	88.2397	6.8341	177.0394	0.4185		24.6706	24.6706		24.6706	24.6706	3,016.1477	5,819.9169	8,836.0646	9.0177	0.2047	9,122.5130
Energy	0.0839	0.7173	0.3052	4.5800e-003		0.0580	0.0580		0.0580	0.0580		915.6959	915.6959	0.0176	0.0168	921.1374
Mobile	0.7992	3.3103	11.0419	0.0419	3.5213	0.0305	3.5519	0.9423	0.0284	0.9707		4,262.8625	4,262.8625	0.2027		4,267.9286

Total	89.1227	10.8617	188.3864	0.4649	3.5213	24.7591	28.2804	0.9423	24.7570	25.6993	3,016.147	10,998.47	14,014.623	9.2379	0.2215	14,311.57
											7	53	0			90

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	3.8641	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735	0.0000	23.9169	23.9169	0.0230	0.0000	24.4919
Energy	0.0782	0.6680	0.2843	4.2600e-003		0.0540	0.0540		0.0540	0.0540		852.7508	852.7508	0.0163	0.0156	857.8183
Mobile	0.7847	3.2392	10.6605	0.0403	3.3805	0.0294	3.4099	0.9046	0.0274	0.9320		4,101.5688	4,101.5688	0.1956		4,106.4586
Total	4.7270	4.0603	24.2304	0.0452	3.3805	0.1570	3.5375	0.9046	0.1549	1.0596	0.0000	4,978.2366	4,978.2366	0.2349	0.0156	4,988.7688

	ROG	NOx	CO	SO2	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	94.70	62.62	87.14	90.27	4.00	99.37	87.49	4.00	99.37	95.88	100.00	54.74	64.48	97.46	92.94	65.14

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2020	1/25/2021	5	40	
2	Grading	Grading	12/29/2020	3/22/2021	5	60	
3	Building Construction	Building Construction	2/9/2021	6/13/2022	5	350	
4	Paving	Paving	6/13/2022	9/2/2022	5	60	
5	Architectural Coating	Architectural Coating	9/2/2022	11/24/2022	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 326,025; Residential Outdoor: 108,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	116.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4806	0.0000	2.4806	0.3756	0.0000	0.3756			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	2.4806	1.6587	4.1393	0.3756	1.5419	1.9174		3,747.7049	3,747.7049	1.0580		3,774.1536

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1000	3.2923	0.7296	9.0400e-003	0.3121	0.0105	0.3226	0.0823	0.0101	0.0924		979.9274	979.9274	0.0667		981.5949
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	0.1691	3.3415	1.3863	0.0108	0.4798	0.0119	0.4917	0.1268	0.0113	0.1382		1,156.3444	1,156.3444	0.0723		1,158.1509

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					0.9674	0.0000	0.9674	0.1465	0.0000	0.1465			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.9674	1.6587	2.6261	0.1465	1.5419	1.6883	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1000	3.2923	0.7296	9.0400e-003	0.3121	0.0105	0.3226	0.0823	0.0101	0.0924		979.9274	979.9274	0.0667		981.5949
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	0.1691	3.3415	1.3863	0.0108	0.4798	0.0119	0.4917	0.1268	0.0113	0.1382		1,156.3444	1,156.3444	0.0723		1,158.1509

3.2 Demolition - 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					2.4806	0.0000	2.4806	0.3756	0.0000	0.3756			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	2.4806	1.5513	4.0319	0.3756	1.4411	1.8167		3,747.9449	3,747.9449	1.0549		3,774.3174

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	0.0955	3.0714	0.7202	8.9300e-003	0.4050	9.4300e-003	0.4145	0.1052	9.0200e-003	0.1142		969.1810	969.1810	0.0658		970.8253
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	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.1598	3.1156	1.3243	0.0106	0.5727	0.0108	0.5835	0.1496	0.0103	0.1599		1,139.9965	1,139.9965	0.0708		1,141.7666

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					0.9674	0.0000	0.9674	0.1465	0.0000	0.1465			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.9674	1.5513	2.5188	0.1465	1.4411	1.5876	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

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	0.0955	3.0714	0.7202	8.9300e-003	0.4050	9.4300e-003	0.4145	0.1052	9.0200e-003	0.1142		969.1810	969.1810	0.0658		970.8253
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	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.1598	3.1156	1.3243	0.0106	0.5727	0.0108	0.5835	0.1496	0.0103	0.1599		1,139.9965	1,139.9965	0.0708		1,141.7666

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.3367	0.0000	4.3367	1.7983	0.0000	1.7983			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	4.3367	2.1739	6.5106	1.7983	2.0000	3.7982		6,005.8653	6,005.8653	1.9424		6,054.4257

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	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080

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					1.6913	0.0000	1.6913	0.7013	0.0000	0.7013			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	1.6913	2.1739	3.8652	0.7013	2.0000	2.7013	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003	235.4080
Total	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003	235.4080

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					4.3367	0.0000	4.3367	1.7983	0.0000	1.7983			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	4.3367	1.9853	6.3220	1.7983	1.8265	3.6248		6,007.0434	6,007.0434	1.9428		6,055.6134

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	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217

Total	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6913	0.0000	1.6913	0.7013	0.0000	0.7013			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	1.6913	1.9853	3.6766	0.7013	1.8265	2.5278	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

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	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	1.6505	0.4315	4.3700e-003	0.1088	3.3800e-003	0.1122	0.0313	3.2300e-003	0.0346		467.2971	467.2971	0.0275		467.9853
Worker	0.4972	0.3418	4.6722	0.0133	1.2966	0.0105	1.3071	0.3439	9.6500e-003	0.3535		1,320.9730	1,320.9730	0.0389		1,321.9461
Total	0.5489	1.9923	5.1037	0.0176	1.4055	0.0139	1.4193	0.3752	0.0129	0.3881		1,788.2701	1,788.2701	0.0665		1,789.9314

Mitigated Construction On-Site

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

Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	1.6505	0.4315	4.3700e-003	0.1088	3.3800e-003	0.1122	0.0313	3.2300e-003	0.0346		467.2971	467.2971	0.0275		467.9853
Worker	0.4972	0.3418	4.6722	0.0133	1.2966	0.0105	1.3071	0.3439	9.6500e-003	0.3535		1,320.9730	1,320.9730	0.0389		1,321.9461
Total	0.5489	1.9923	5.1037	0.0176	1.4055	0.0139	1.4193	0.3752	0.0129	0.3881		1,788.2701	1,788.2701	0.0665		1,789.9314

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0485	1.5696	0.4083	4.3300e-003	0.1088	2.9500e-003	0.1118	0.0313	2.8200e-003	0.0342		463.2260	463.2260	0.0266		463.8906
Worker	0.4658	0.3087	4.3106	0.0128	1.2966	0.0102	1.3068	0.3439	9.3500e-003	0.3532		1,274.5063	1,274.5063	0.0352		1,275.3857
Total	0.5143	1.8783	4.7188	0.0171	1.4055	0.0131	1.4186	0.3752	0.0122	0.3874		1,737.7323	1,737.7323	0.0618		1,739.2763

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0485	1.5696	0.4083	4.3300e-003	0.1088	2.9500e-003	0.1118	0.0313	2.8200e-003	0.0342		463.2260	463.2260	0.0266		463.8906
Worker	0.4658	0.3087	4.3106	0.0128	1.2966	0.0102	1.3068	0.3439	9.3500e-003	0.3532		1,274.5063	1,274.5063	0.0352		1,275.3857
Total	0.5143	1.8783	4.7188	0.0171	1.4055	0.0131	1.4186	0.3752	0.0122	0.3874		1,737.7323	1,737.7323	0.0618		1,739.2763

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206

Total	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206

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	16.7903					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	16.9948	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	0.0924	0.0612	0.8547	2.5400e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700			252.7038	252.7038	6.9700e-003	252.8782
Total	0.0924	0.0612	0.8547	2.5400e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700			252.7038	252.7038	6.9700e-003	252.8782

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	16.7903					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	16.9948	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	0.0924	0.0612	0.8547	2.5400e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700		252.7038	252.7038	6.9700e-003		252.8782
Total	0.0924	0.0612	0.8547	2.5400e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700		252.7038	252.7038	6.9700e-003		252.8782

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Integrate Below Market Rate Housing

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

Mitigated	0.7847	3.2392	10.6605	0.0403	3.3805	0.0294	3.4099	0.9046	0.0274	0.9320		4,101.5688	4,101.5688	0.1956		4,106.4586
Unmitigated	0.7992	3.3103	11.0419	0.0419	3.5213	0.0305	3.5519	0.9423	0.0284	0.9707		4,262.8625	4,262.8625	0.2027		4,267.9286

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	249.83	249.83	249.83	853,707	819,559
Condo/Townhouse	234.78	234.78	234.78	802,279	770,188
Total	484.61	484.61	484.61	1,655,986	1,589,747

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0782	0.6680	0.2843	4.2600e-003		0.0540	0.0540		0.0540	0.0540		852.7508	852.7508	0.0163	0.0156	857.8183
NaturalGas Unmitigated	0.0839	0.7173	0.3052	4.5800e-003		0.0580	0.0580		0.0580	0.0580		915.6959	915.6959	0.0176	0.0168	921.1374

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					
Condo/Townhouse	3770.85	0.0407	0.3475	0.1479	2.2200e-003		0.0281	0.0281		0.0281	0.0281		443.6291	443.6291	8.5000e-003	8.1300e-003	446.2653
Condo/Townhouse	4012.57	0.0433	0.3698	0.1574	2.3600e-003		0.0299	0.0299		0.0299	0.0299		472.0668	472.0668	9.0500e-003	8.6500e-003	474.8721
Total		0.0839	0.7173	0.3052	4.5800e-003		0.0580	0.0580		0.0580	0.0580		915.6959	915.6959	0.0176	0.0168	921.1374

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					
Condo/Townhouse	3.51164	0.0379	0.3236	0.1377	2.0700e-003		0.0262	0.0262		0.0262	0.0262		413.1339	413.1339	7.9200e-003	7.5700e-003	415.5890
Condo/Townhouse	3.73674	0.0403	0.3444	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278		439.6169	439.6169	8.4300e-003	8.0600e-003	442.2293

Total		0.0782	0.6680	0.2843	4.2700e-003		0.0540	0.0540		0.0540	0.0540		852.7508	852.7508	0.0164	0.0156	857.8183
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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	3.8641	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735	0.0000	23.9169	23.9169	0.0230	0.0000	24.4919
Unmitigated	88.2397	6.8341	177.0394	0.4185		24.6706	24.6706		24.6706	24.6706	3,016.1477	5,819.9169	8,836.0646	9.0177	0.2047	9,122.5130

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	0.2760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	3.1878				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Hearth	84.3756	6.6810	163.7537	0.4178		24.5970	24.5970		24.5970	24.5970	3,016.1477	5,796.0000	8,812.1477	8.9947	0.2047	9,098.0211
Landscaping	0.4003	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735		23.9169	23.9169	0.0230		24.4919
Total	88.2396	6.8341	177.0394	0.4185		24.6706	24.6706		24.6706	24.6706	3,016.1477	5,819.9169	8,836.0646	9.0177	0.2047	9,122.5130

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	0.2760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4003	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735		23.9169	23.9169	0.0230		24.4919
Total	3.8641	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735	0.0000	23.9169	23.9169	0.0230	0.0000	24.4919

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

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

Tina Pacific Neighborhood Development Plan Project - Los Angeles-South Coast County, Winter

**Tina Pacific Neighborhood Development Plan Project
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	83.00	Dwelling Unit	5.19	83,000.00	237
Condo/Townhouse	78.00	Dwelling Unit	4.88	78,000.00	223

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	549	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per SCE 2017 Sustainability

Land Use -

Construction Phase - Phase I: 83 units

Phase II: 78 units

Demolition -

Vehicle Trips - 484 net new daily vehicle trips

Woodstoves -

Area Coating -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	350.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	20.00	60.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	549
tblVehicleTrips	ST_TR	5.67	3.01
tblVehicleTrips	SU_TR	4.84	3.01
tblVehicleTrips	WD_TR	5.81	3.01

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.0435	86.8603	55.8904	0.1136	7.5205	3.8465	11.3671	2.3599	3.5551	5.9150	0.0000	11,104.2200	11,104.2200	3.0817	0.0000	11,181.2627
2021	7.6209	81.0637	54.4960	0.1134	7.6135	3.5494	11.1629	2.3827	3.2797	5.6624	0.0000	11,082.6679	11,082.6679	3.0768	0.0000	11,159.5887
2022	18.2678	28.6917	35.8389	0.0675	1.5731	1.3914	2.9645	0.4197	1.2971	1.7168	0.0000	6,567.7294	6,567.7294	1.3916	0.0000	6,602.5187

Maximum	18.2678	86.8603	55.8904	0.1136	7.6135	3.8465	11.3671	2.3827	3.5551	5.9150	0.0000	11,104.2200	11,104.2200	3.0817	0.0000	11,181.2627
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.0435	86.8603	55.8904	0.1136	3.3620	3.8465	7.2086	1.0339	3.5551	4.5890	0.0000	11,104.2200	11,104.2200	3.0817	0.0000	11,181.2627
2021	7.6209	81.0637	54.4960	0.1134	3.4550	3.5494	7.0044	1.1358	3.2797	4.3364	0.0000	11,082.6679	11,082.6679	3.0768	0.0000	11,159.5887
2022	18.2678	28.6917	35.8389	0.0675	1.5731	1.3914	2.9645	0.4197	1.2971	1.7168	0.0000	6,567.7294	6,567.7294	1.3916	0.0000	6,602.5187
Maximum	18.2678	86.8603	55.8904	0.1136	3.4550	3.8465	7.2086	1.1358	3.5551	4.5890	0.0000	11,104.2200	11,104.2200	3.0817	0.0000	11,181.2627

	ROG	NOx	CO	SO2	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	49.78	0.00	32.62	49.84	0.00	19.95	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	88.2397	6.8341	177.0394	0.4185		24.6706	24.6706		24.6706	24.6706	3,016.1477	5,819.9169	8,836.0646	9.0177	0.2047	9,122.5130
Energy	0.0839	0.7173	0.3052	4.5800e-003		0.0580	0.0580		0.0580	0.0580		915.6959	915.6959	0.0176	0.0168	921.1374
Mobile	0.7741	3.3961	10.4400	0.0398	3.5213	0.0307	3.5520	0.9423	0.0285	0.9709		4,058.9283	4,058.9283	0.2017		4,063.9701

Total	89.0977	10.9475	187.7846	0.4629	3.5213	24.7592	28.2806	0.9423	24.7571	25.6994	3,016.1477	10,794.5411	13,810.6888	9.2370	0.2215	14,107.6205
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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	3.8641	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735	0.0000	23.9169	23.9169	0.0230	0.0000	24.4919
Energy	0.0782	0.6680	0.2843	4.2600e-003		0.0540	0.0540		0.0540	0.0540		852.7508	852.7508	0.0163	0.0156	857.8183
Mobile	0.7600	3.3205	10.0946	0.0383	3.3805	0.0296	3.4100	0.9046	0.0275	0.9321		3,904.9254	3,904.9254	0.1948		3,909.7951
Total	4.7022	4.1416	23.6645	0.0433	3.3805	0.1571	3.5376	0.9046	0.1550	1.0597	0.0000	4,781.5931	4,781.5931	0.2341	0.0156	4,792.1053

	ROG	NOx	CO	SO2	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	94.72	62.17	87.40	90.65	4.00	99.37	87.49	4.00	99.37	95.88	100.00	55.70	65.38	97.47	92.94	66.03

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2020	1/25/2021	5	40	
2	Grading	Grading	12/29/2020	3/22/2021	5	60	
3	Building Construction	Building Construction	2/9/2021	6/13/2022	5	350	
4	Paving	Paving	6/13/2022	9/2/2022	5	60	
5	Architectural Coating	Architectural Coating	9/2/2022	11/24/2022	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 326,025; Residential Outdoor: 108,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	116.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4806	0.0000	2.4806	0.3756	0.0000	0.3756			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	2.4806	1.6587	4.1393	0.3756	1.5419	1.9174		3,747.7049	3,747.7049	1.0580		3,774.1536

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1024	3.3350	0.7753	8.8900e-003	0.3121	0.0107	0.3228	0.0823	0.0102	0.0926		963.0527	963.0527	0.0691		964.7808
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	0.1791	3.3893	1.3769	0.0106	0.4798	0.0121	0.4918	0.1268	0.0115	0.1383		1,129.1658	1,129.1658	0.0744		1,131.0248

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					0.9674	0.0000	0.9674	0.1465	0.0000	0.1465			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	0.9674	1.6587	2.6261	0.1465	1.5419	1.6883	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1024	3.3350	0.7753	8.8900e-003	0.3121	0.0107	0.3228	0.0823	0.0102	0.0926		963.0527	963.0527	0.0691		964.7808
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	0.1791	3.3893	1.3769	0.0106	0.4798	0.0121	0.4918	0.1268	0.0115	0.1383		1,129.1658	1,129.1658	0.0744		1,131.0248

3.2 Demolition - 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					2.4806	0.0000	2.4806	0.3756	0.0000	0.3756			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	2.4806	1.5513	4.0319	0.3756	1.4411	1.8167		3,747.9449	3,747.9449	1.0549		3,774.3174

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	0.0978	3.1090	0.7636	8.7800e-003	0.4050	9.5700e-003	0.4146	0.1052	9.1600e-003	0.1143		952.3917	952.3917	0.0681		954.0939
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	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.1693	3.1579	1.3160	0.0104	0.5727	0.0109	0.5836	0.1496	0.0104	0.1600		1,113.2293	1,113.2293	0.0728		1,115.0499

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					0.9674	0.0000	0.9674	0.1465	0.0000	0.1465			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	3.1651	31.4407	21.5650	0.0388	0.9674	1.5513	2.5188	0.1465	1.4411	1.5876	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174

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	0.0978	3.1090	0.7636	8.7800e-003	0.4050	9.5700e-003	0.4146	0.1052	9.1600e-003	0.1143		952.3917	952.3917	0.0681		954.0939
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	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.1693	3.1579	1.3160	0.0104	0.5727	0.0109	0.5836	0.1496	0.0104	0.1600		1,113.2293	1,113.2293	0.0728		1,115.0499

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.3367	0.0000	4.3367	1.7983	0.0000	1.7983			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	4.3367	2.1739	6.5106	1.7983	2.0000	3.7982		6,005.8653	6,005.8653	1.9424		6,054.4257

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	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586

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					1.6913	0.0000	1.6913	0.7013	0.0000	0.7013			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	1.6913	2.1739	3.8652	0.7013	2.0000	2.7013	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586

3.3 Grading - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					4.3367	0.0000	4.3367	1.7983	0.0000	1.7983			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	4.3367	1.9853	6.3220	1.7983	1.8265	3.6248		6,007.0434	6,007.0434	1.9428		6,055.6134

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080

Total	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6913	0.0000	1.6913	0.7013	0.0000	0.7013			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	1.6913	1.9853	3.6766	0.7013	1.8265	2.5278	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

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	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0543	1.6471	0.4773	4.2500e-003	0.1088	3.4800e-003	0.1123	0.0313	3.3300e-003	0.0347		454.4874	454.4874	0.0293		455.2209
Worker	0.5531	0.3783	4.2718	0.0125	1.2966	0.0105	1.3071	0.3439	9.6500e-003	0.3535		1,243.8113	1,243.8113	0.0366		1,244.7263
Total	0.6074	2.0254	4.7491	0.0167	1.4055	0.0140	1.4194	0.3752	0.0130	0.3882		1,698.2987	1,698.2987	0.0659		1,699.9472

Mitigated Construction On-Site

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

Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0543	1.6471	0.4773	4.2500e-003	0.1088	3.4800e-003	0.1123	0.0313	3.3300e-003	0.0347		454.4874	454.4874	0.0293		455.2209
Worker	0.5531	0.3783	4.2718	0.0125	1.2966	0.0105	1.3071	0.3439	9.6500e-003	0.3535		1,243.8113	1,243.8113	0.0366		1,244.7263
Total	0.6074	2.0254	4.7491	0.0167	1.4055	0.0140	1.4194	0.3752	0.0130	0.3882		1,698.2987	1,698.2987	0.0659		1,699.9472

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0509	1.5654	0.4518	4.2100e-003	0.1088	3.0500e-003	0.1119	0.0313	2.9100e-003	0.0343		450.4495	450.4495	0.0283		451.1572
Worker	0.5195	0.3417	3.9345	0.0120	1.2966	0.0102	1.3068	0.3439	9.3500e-003	0.3532		1,200.1006	1,200.1006	0.0330		1,200.9267
Total	0.5704	1.9070	4.3863	0.0163	1.4055	0.0132	1.4187	0.3752	0.0123	0.3875		1,650.5501	1,650.5501	0.0614		1,652.0839

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0509	1.5654	0.4518	4.2100e-003	0.1088	3.0500e-003	0.1119	0.0313	2.9100e-003	0.0343		450.4495	450.4495	0.0283		451.1572
Worker	0.5195	0.3417	3.9345	0.0120	1.2966	0.0102	1.3068	0.3439	9.3500e-003	0.3532		1,200.1006	1,200.1006	0.0330		1,200.9267
Total	0.5704	1.9070	4.3863	0.0163	1.4055	0.0132	1.4187	0.3752	0.0123	0.3875		1,650.5501	1,650.5501	0.0614		1,652.0839

3.5 Paving - 2022

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive 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	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922

Total	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922

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	16.7903					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	16.9948	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	0.1030	0.0677	0.7801	2.3900e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700		237.9510	237.9510	6.5500e-003		238.1148
Total	0.1030	0.0677	0.7801	2.3900e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700		237.9510	237.9510	6.5500e-003		238.1148

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	16.7903					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	16.9948	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	0.1030	0.0677	0.7801	2.3900e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700		237.9510	237.9510	6.5500e-003		238.1148
Total	0.1030	0.0677	0.7801	2.3900e-003	0.2571	2.0100e-003	0.2591	0.0682	1.8500e-003	0.0700		237.9510	237.9510	6.5500e-003		238.1148

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Integrate Below Market Rate Housing

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

Mitigated	0.7600	3.3205	10.0946	0.0383	3.3805	0.0296	3.4100	0.9046	0.0275	0.9321		3,904.9254	3,904.9254	0.1948		3,909.7951
Unmitigated	0.7741	3.3961	10.4400	0.0398	3.5213	0.0307	3.5520	0.9423	0.0285	0.9709		4,058.9283	4,058.9283	0.2017		4,063.9701

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	249.83	249.83	249.83	853,707	819,559
Condo/Townhouse	234.78	234.78	234.78	802,279	770,188
Total	484.61	484.61	484.61	1,655,986	1,589,747

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.545842	0.044768	0.205288	0.119317	0.015350	0.006227	0.020460	0.031333	0.002546	0.002133	0.005184	0.000692	0.000862

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0782	0.6680	0.2843	4.2600e-003		0.0540	0.0540		0.0540	0.0540		852.7508	852.7508	0.0163	0.0156	857.8183
NaturalGas Unmitigated	0.0839	0.7173	0.3052	4.5800e-003		0.0580	0.0580		0.0580	0.0580		915.6959	915.6959	0.0176	0.0168	921.1374

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					
Condo/Townhouse	3770.85	0.0407	0.3475	0.1479	2.2200e-003		0.0281	0.0281		0.0281	0.0281		443.6291	443.6291	8.5000e-003	8.1300e-003	446.2653
Condo/Townhouse	4012.57	0.0433	0.3698	0.1574	2.3600e-003		0.0299	0.0299		0.0299	0.0299		472.0668	472.0668	9.0500e-003	8.6500e-003	474.8721
Total		0.0839	0.7173	0.3052	4.5800e-003		0.0580	0.0580		0.0580	0.0580		915.6959	915.6959	0.0176	0.0168	921.1374

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					
Condo/Townhouse	3.51164	0.0379	0.3236	0.1377	2.0700e-003		0.0262	0.0262		0.0262	0.0262		413.1339	413.1339	7.9200e-003	7.5700e-003	415.5890
Condo/Townhouse	3.73674	0.0403	0.3444	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278		439.6169	439.6169	8.4300e-003	8.0600e-003	442.2293

Total		0.0782	0.6680	0.2843	4.2700e-003		0.0540	0.0540		0.0540	0.0540		852.7508	852.7508	0.0164	0.0156	857.8183
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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	3.8641	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735	0.0000	23.9169	23.9169	0.0230	0.0000	24.4919
Unmitigated	88.2397	6.8341	177.0394	0.4185		24.6706	24.6706		24.6706	24.6706	3,016.1477	5,819.9169	8,836.0646	9.0177	0.2047	9,122.5130

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	0.2760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	3.1878				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Hearth	84.3756	6.6810	163.7537	0.4178		24.5970	24.5970		24.5970	24.5970	3,016.1477	5,796.0000	8,812.1477	8.9947	0.2047	9,098.0211
Landscaping	0.4003	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735		23.9169	23.9169	0.0230		24.4919
Total	88.2396	6.8341	177.0394	0.4185		24.6706	24.6706		24.6706	24.6706	3,016.1477	5,819.9169	8,836.0646	9.0177	0.2047	9,122.5130

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	0.2760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4003	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735		23.9169	23.9169	0.0230		24.4919
Total	3.8641	0.1532	13.2857	7.0000e-004		0.0735	0.0735		0.0735	0.0735	0.0000	23.9169	23.9169	0.0230	0.0000	24.4919

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

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

Land Use	Natural Gas Use	Electricity Use	Electricity Use
	(kBTU/yr)	(kWh/yr)	(MWh/yr)
Condo/Townhouse	1,281,750	387545	388
Condo/Townhouse	1,363,910	412387	412
Total kBTU	2,645,660	799,932	800
Total Therms	26,457	--	--
Total MWH	--	800	

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Orange County Annual Energy Consumption	Percentage Increase Countywide
Electricity	800	20,030,546	0.00399%
Natural Gas	26,457	576,023,027	0.00459%

Vehicle Type	Percent of Vehicle Trips ¹	Daily Trips ²	Annual Vehicle Miles Traveled ³	Average Fuel Economy (miles per gallon) ⁴	Total Annual Fuel Consumption (gallons) ⁵
Passenger Cars	0.55	--	874360.85	22	39,744
Light/Medium Trucks	0.37	--	588206.39	17.3	34,000
Heavy Trucks/Other	0.08	--	127179.76	6.4	19,872
TOTAL⁶	1.00	--	1,589,747	--	93,616

Countywide
1,248,703,310 0.00750%

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.
2. Daily Trips calculated by multiplying the total daily trips by percent vehicle trips (i.e., Daily Trips x percent of Vehicle Trips).
3. Daily Vehicle Miles Traveled (VMT) calculated by multiplying percent vehicle trips by total VMT (i.e., VMT x percent of Vehicle Trips).
4. Average fuel economy derived from the Department of Transportation.
5. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).
6. Values may be slightly off due to rounding.

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Demolition	Concrete/Industrial Saws	1	8	81	0.73	2.3652	8	40	756.864
	Excavators	3	8	158	0.38	2.4016	24	40	2305.536
	Rubber Tired Dozers	2	8	247	0.4	3.952	16	40	2529.28
Grading	Excavators	2	8	158	0.38	2.4016	16	60	2305.536
	Graders	1	8	187	0.41	3.0668	8	60	1472.064
	Rubber Tired Dozers	1	8	247	0.4	3.952	8	60	1896.96
	Scrapers	2	8	367	0.48	7.0464	16	60	6764.544
	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	8	60	689.088
Building Construction	Cranes	1	7	231	0.29	2.6796	7	350	6565.02
	Forklifts	3	8	89	0.2	0.712	24	350	5980.8
	Generator Sets	1	8	84	0.74	2.4864	8	350	6961.92
	Tractors/Loaders/Backhoes	3	7	100	0.4	1.6	21	350	11760
	Welders	1	8	65	0.37	0.962	8	350	2693.6
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	60	539.136
Paving	Pavers	2	8	130	0.42	2.184	16	60	2096.64
	Paving Equipment	2	8	132	0.36	1.9008	16	60	1824.768
	Rollers	2	6	80	0.38	1.216	12	60	875.52

Total

58,017

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

County Offroad Gallons 159,431,547
0.0363901%