

APPENDIX A

Air Quality and Climate Change Assessment

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

**Monrovia - Station Square South
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	296.00	Dwelling Unit	3.19	296,000.00	591
Unenclosed Parking with Elevator	522.00	Space	0.56	208,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Lot size obtained from project description.

Population calculated from total number of bedrooms

Parking lot estimated to be 15% of parcel based on site plans

Demolition - From Project Description

Woodstoves - no wood stoves or fireplaces.

Construction Off-road Equipment Mitigation - Consistent with South Coast Fugitive dust Rules

Mobile Land Use Mitigation - Walkability is improved through access to Gold Line station

29% decrease in parking based compared to Monrovia standard - due to proximity to Gold Line Station

Area Mitigation - Numbers are from CALEEMOD data tables.

Energy Mitigation -

Water Mitigation -

Area Coating -

Architectural Coating - Use 10 g/L for super compliance

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblLandUse	LotAcreage	7.79	3.19
tblLandUse	LotAcreage	4.70	0.56
tblLandUse	Population	847.00	591.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.6976	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269
Energy	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
Mobile	4.0282	20.0111	54.1122	0.1763	14.3034	0.1856	14.4890	3.8282	0.1741	4.0023		17,915.6486	17,915.6486	1.0152		17,941.0276
Total	11.8701	25.7019	80.9682	0.2121	14.3034	0.7577	15.0611	3.8282	0.7461	4.5743	0.0000	24,862.1939	24,862.1939	1.1906	0.1266	24,929.6703

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	7.8245	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269
Energy	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
Mobile	3.1354	13.7656	32.7004	0.0953	7.4005	0.1025	7.5030	1.9807	0.0961	2.0768		9,691.5136	9,691.5136	0.6025		9,706.5770
Total	11.1042	19.4565	59.5564	0.1311	7.4005	0.6746	8.0751	1.9807	0.6682	2.6488	0.0000	16,638.0589	16,638.0589	0.7780	0.1266	16,695.2197

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.45	24.30	26.44	38.18	48.26	10.97	46.38	48.26	10.45	42.09	0.00	33.08	33.08	34.66	0.00	33.03

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/29/2019	7/24/2019	5	18	
2	Building Construction	Building Construction	7/18/2018	6/4/2019	5	230	
3	Demolition	Demolition	6/1/2018	6/28/2018	5	20	
4	Grading	Grading	7/6/2018	7/17/2018	5	8	
5	Paving	Paving	6/5/2019	6/28/2019	5	18	
6	Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.56

Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 12,528 (Architectural Coating – sqft)

OffRoad Equipment

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

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
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	301.00	66.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	146.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.9020					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	21.1684	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.2 Architectural Coating - 2019

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	0.3323	0.2440	2.6549	6.8800e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832		685.2785	685.2785	0.0236		685.8679
Total	0.3323	0.2440	2.6549	6.8800e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832		685.2785	685.2785	0.0236		685.8679

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	20.9020					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	21.1684	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.2 Architectural Coating - 2019

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	0.3323	0.2440	2.6549	6.8800e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832		685.2785	685.2785	0.0236		685.8679
Total	0.3323	0.2440	2.6549	6.8800e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832		685.2785	685.2785	0.0236		685.8679

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.3 Building Construction - 2018

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	0.3164	8.1071	2.4310	0.0170	0.4225	0.0579	0.4804	0.1217	0.0554	0.1771		1,809.3891	1,809.3891	0.1306		1,812.6528
Worker	1.8406	1.3897	14.9678	0.0357	3.3645	0.0300	3.3945	0.8923	0.0277	0.9199		3,553.5337	3,553.5337	0.1337		3,556.8770
Total	2.1570	9.4969	17.3989	0.0527	3.7870	0.0879	3.8749	1.0139	0.0831	1.0970		5,362.9227	5,362.9227	0.2643		5,369.5298

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.3 Building Construction - 2018

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	0.3164	8.1071	2.4310	0.0170	0.4225	0.0579	0.4804	0.1217	0.0554	0.1771		1,809.3891	1,809.3891	0.1306		1,812.6528
Worker	1.8406	1.3897	14.9678	0.0357	3.3645	0.0300	3.3945	0.8923	0.0277	0.9199		3,553.5337	3,553.5337	0.1337		3,556.8770
Total	2.1570	9.4969	17.3989	0.0527	3.7870	0.0879	3.8749	1.0139	0.0831	1.0970		5,362.9227	5,362.9227	0.2643		5,369.5298

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.3 Building Construction - 2019

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	0.2860	7.6484	2.2340	0.0168	0.4225	0.0495	0.4720	0.1217	0.0474	0.1690		1,790.4289	1,790.4289	0.1258		1,793.5733
Worker	1.6669	1.2238	13.3185	0.0345	3.3645	0.0290	3.3935	0.8923	0.0267	0.9190		3,437.8138	3,437.8138	0.1183		3,440.7704
Total	1.9529	8.8722	15.5525	0.0513	3.7870	0.0785	3.8655	1.0139	0.0741	1.0880		5,228.2427	5,228.2427	0.2440		5,234.3437

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.3 Building Construction - 2019

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	0.2860	7.6484	2.2340	0.0168	0.4225	0.0495	0.4720	0.1217	0.0474	0.1690		1,790.4289	1,790.4289	0.1258		1,793.5733
Worker	1.6669	1.2238	13.3185	0.0345	3.3645	0.0290	3.3935	0.8923	0.0267	0.9190		3,437.8138	3,437.8138	0.1183		3,440.7704
Total	1.9529	8.8722	15.5525	0.0513	3.7870	0.0785	3.8655	1.0139	0.0741	1.0880		5,228.2427	5,228.2427	0.2440		5,234.3437

3.4 Demolition - 2018

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					1.5844	0.0000	1.5844	0.2399	0.0000	0.2399			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	1.5844	1.9386	3.5230	0.2399	1.8048	2.0447		3,871.7665	3,871.7665	1.0667		3,898.4344

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.4 Demolition - 2018

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	0.0743	2.3907	0.5220	5.8200e-003	0.1276	9.1500e-003	0.1368	0.0350	8.7500e-003	0.0437		628.5031	628.5031	0.0457		629.6461
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	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530
Total	0.1660	2.4599	1.2679	7.6000e-003	0.2953	0.0106	0.3059	0.0795	0.0101	0.0896		805.5895	805.5895	0.0524		806.8991

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					0.7130	0.0000	0.7130	0.1080	0.0000	0.1080			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	0.7130	1.9386	2.6515	0.1080	1.8048	1.9128	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.4 Demolition - 2018

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	0.0743	2.3907	0.5220	5.8200e-003	0.1276	9.1500e-003	0.1368	0.0350	8.7500e-003	0.0437		628.5031	628.5031	0.0457		629.6461
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	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530
Total	0.1660	2.4599	1.2679	7.6000e-003	0.2953	0.0106	0.3059	0.0795	0.0101	0.0896		805.5895	805.5895	0.0524		806.8991

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947		2,988.0216	2,988.0216	0.9302		3,011.2769

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.5 Grading - 2018

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	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530
Total	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	2.9486	1.5513	4.4999	1.5154	1.4272	2.9426	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.5 Grading - 2018

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	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530
Total	0.0917	0.0693	0.7459	1.7800e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		177.0864	177.0864	6.6600e-003		177.2530

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.6 Paving - 2019

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	0.1108	0.0813	0.8850	2.2900e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		228.4262	228.4262	7.8600e-003		228.6226
Total	0.1108	0.0813	0.8850	2.2900e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		228.4262	228.4262	7.8600e-003		228.6226

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	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.6 Paving - 2019

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	0.1108	0.0813	0.8850	2.2900e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		228.4262	228.4262	7.8600e-003		228.6226
Total	0.1108	0.0813	0.8850	2.2900e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		228.4262	228.4262	7.8600e-003		228.6226

3.7 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.7 Site Preparation - 2018

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	0.1101	0.0831	0.8951	2.1400e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		212.5037	212.5037	8.0000e-003		212.7036
Total	0.1101	0.0831	0.8951	2.1400e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		212.5037	212.5037	8.0000e-003		212.7036

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	8.1298	2.5769	10.7067	4.4688	2.3708	6.8396	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

3.7 Site Preparation - 2018

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	0.1101	0.0831	0.8951	2.1400e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		212.5037	212.5037	8.0000e-003		212.7036
Total	0.1101	0.0831	0.8951	2.1400e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		212.5037	212.5037	8.0000e-003		212.7036

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Improve Walkability Design
- Increase Transit Accessibility
- Improve Pedestrian Network
- Limit Parking Supply

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1354	13.7656	32.7004	0.0953	7.4005	0.1025	7.5030	1.9807	0.0961	2.0768		9,691.5136	9,691.5136	0.6025		9,706.5770
Unmitigated	4.0282	20.0111	54.1122	0.1763	14.3034	0.1856	14.4890	3.8282	0.1741	4.0023		17,915.6486	17,915.6486	1.0152		17,941.0276

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,968.40	1,891.44	1,734.56	6,574,600	3,401,644
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,968.40	1,891.44	1,734.56	6,574,600	3,401,644

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Unenclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
NaturalGas Unmitigated	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	13382.9	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	13382.9	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158

6.0 Area Detail

6.1 Mitigation Measures Area

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.8245	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269
Unmitigated	7.6976	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

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	0.5234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4884	4.1736	1.7760	0.0266		0.3374	0.3374		0.3374	0.3374	0.0000	5,328.0000	5,328.0000	0.1021	0.0977	5,359.6616
Landscaping	0.7511	0.2839	24.5552	1.2900e-003		0.1349	0.1349		0.1349	0.1349		44.0857	44.0857	0.0432		45.1653
Total	7.6977	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269

Monrovia - Station Square South - Los Angeles-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4884	4.1736	1.7760	0.0266		0.3374	0.3374		0.3374	0.3374	0.0000	5,328.0000	5,328.0000	0.1021	0.0977	5,359.6616
Landscaping	0.7511	0.2839	24.5552	1.2900e-003		0.1349	0.1349		0.1349	0.1349		44.0857	44.0857	0.0432		45.1653
Total	7.8245	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

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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Monrovia - Station Square South - Los Angeles-South Coast County, Winter

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

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

Monrovia - Station Square South
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	296.00	Dwelling Unit	3.19	296,000.00	591
Unenclosed Parking with Elevator	522.00	Space	0.56	208,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Lot size obtained from project description.

Population calculated from total number of bedrooms

Parking lot estimated to be 15% of parcel based on site plans

Demolition - From Project Description

Woodstoves - no wood stoves or fireplaces.

Construction Off-road Equipment Mitigation - Consistent with South Coast Fugitive dust Rules

Mobile Land Use Mitigation - Walkability is improved through access to Gold Line station

29% decrease in parking based compared to Monrovia standard - due to proximity to Gold Line Station

Area Mitigation - Numbers are from CALEEMOD data tables.

Energy Mitigation -

Water Mitigation -

Area Coating -

Architectural Coating - Use 10 g/L for super compliance

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblLandUse	LotAcreage	7.79	3.19
tblLandUse	LotAcreage	4.70	0.56
tblLandUse	Population	847.00	591.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.6976	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269
Energy	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
Mobile	4.1391	19.4599	56.9465	0.1854	14.3034	0.1847	14.4881	3.8282	0.1732	4.0014		18,831.7653	18,831.7653	1.0208		18,857.2843
Total	11.9811	25.1507	83.8025	0.2212	14.3034	0.7568	15.0602	3.8282	0.7453	4.5735	0.0000	25,778.3105	25,778.3105	1.1962	0.1266	25,845.9270

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	7.8245	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269
Energy	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
Mobile	3.2238	13.5607	33.3716	0.1004	7.4005	0.1016	7.5021	1.9807	0.0952	2.0759		10,207.3562	10,207.3562	0.5965		10,222.2692
Total	11.1927	19.2515	60.2276	0.1362	7.4005	0.6737	8.0742	1.9807	0.6673	2.6480	0.0000	17,153.9015	17,153.9015	0.7720	0.1266	17,210.9119

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	6.58	23.46	28.13	38.43	48.26	10.98	46.39	48.26	10.46	42.10	0.00	33.46	33.46	35.46	0.00	33.41

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/29/2019	7/24/2019	5	18	
2	Building Construction	Building Construction	7/18/2018	6/4/2019	5	230	
3	Demolition	Demolition	6/1/2018	6/28/2018	5	20	
4	Grading	Grading	7/6/2018	7/17/2018	5	8	
5	Paving	Paving	6/5/2019	6/28/2019	5	18	
6	Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.56

Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 12,528 (Architectural Coating – sqft)

OffRoad Equipment

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

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
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	301.00	66.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	146.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.9020					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	21.1684	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.2 Architectural Coating - 2019

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	0.2997	0.2203	2.8930	7.3100e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832		727.7717	727.7717	0.0250		728.3967
Total	0.2997	0.2203	2.8930	7.3100e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832		727.7717	727.7717	0.0250		728.3967

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	20.9020					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	21.1684	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.2 Architectural Coating - 2019

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	0.2997	0.2203	2.8930	7.3100e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832		727.7717	727.7717	0.0250		728.3967
Total	0.2997	0.2203	2.8930	7.3100e-003	0.6707	5.7800e-003	0.6764	0.1779	5.3300e-003	0.1832		727.7717	727.7717	0.0250		728.3967

3.3 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.3 Building Construction - 2018

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	0.3036	8.0890	2.2116	0.0175	0.4225	0.0570	0.4795	0.1217	0.0545	0.1762		1,859.0841	1,859.0841	0.1224		1,862.1445
Worker	1.6630	1.2549	16.2562	0.0379	3.3645	0.0300	3.3945	0.8923	0.0277	0.9199		3,773.6064	3,773.6064	0.1415		3,777.1448
Total	1.9666	9.3439	18.4679	0.0554	3.7870	0.0870	3.8740	1.0139	0.0822	1.0961		5,632.6905	5,632.6905	0.2640		5,639.2893

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.3 Building Construction - 2018

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	0.3036	8.0890	2.2116	0.0175	0.4225	0.0570	0.4795	0.1217	0.0545	0.1762		1,859.0841	1,859.0841	0.1224		1,862.1445
Worker	1.6630	1.2549	16.2562	0.0379	3.3645	0.0300	3.3945	0.8923	0.0277	0.9199		3,773.6064	3,773.6064	0.1415		3,777.1448
Total	1.9666	9.3439	18.4679	0.0554	3.7870	0.0870	3.8740	1.0139	0.0822	1.0961		5,632.6905	5,632.6905	0.2640		5,639.2893

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.3 Building Construction - 2019

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	0.2743	7.6382	2.0267	0.0173	0.4225	0.0487	0.4712	0.1217	0.0466	0.1682		1,840.1765	1,840.1765	0.1179		1,843.1246
Worker	1.5037	1.1051	14.5131	0.0367	3.3645	0.0290	3.3935	0.8923	0.0267	0.9190		3,650.9882	3,650.9882	0.1254		3,654.1233
Total	1.7779	8.7433	16.5399	0.0539	3.7870	0.0777	3.8647	1.0139	0.0733	1.0873		5,491.1647	5,491.1647	0.2433		5,497.2479

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.3 Building Construction - 2019

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	0.2743	7.6382	2.0267	0.0173	0.4225	0.0487	0.4712	0.1217	0.0466	0.1682		1,840.1765	1,840.1765	0.1179		1,843.1246
Worker	1.5037	1.1051	14.5131	0.0367	3.3645	0.0290	3.3935	0.8923	0.0267	0.9190		3,650.9882	3,650.9882	0.1254		3,654.1233
Total	1.7779	8.7433	16.5399	0.0539	3.7870	0.0777	3.8647	1.0139	0.0733	1.0873		5,491.1647	5,491.1647	0.2433		5,497.2479

3.4 Demolition - 2018

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					1.5844	0.0000	1.5844	0.2399	0.0000	0.2399			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	1.5844	1.9386	3.5230	0.2399	1.8048	2.0447		3,871.7665	3,871.7665	1.0667		3,898.4344

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.4 Demolition - 2018

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	0.0725	2.3584	0.4880	5.9200e-003	0.1276	8.9700e-003	0.1366	0.0350	8.5800e-003	0.0436		639.1986	639.1986	0.0440		640.2987
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	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	0.1553	2.4209	1.2981	7.8100e-003	0.2953	0.0105	0.3058	0.0795	9.9600e-003	0.0894		827.2521	827.2521	0.0511		828.5285

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					0.7130	0.0000	0.7130	0.1080	0.0000	0.1080			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	0.7130	1.9386	2.6515	0.1080	1.8048	1.9128	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.4 Demolition - 2018

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	0.0725	2.3584	0.4880	5.9200e-003	0.1276	8.9700e-003	0.1366	0.0350	8.5800e-003	0.0436		639.1986	639.1986	0.0440		640.2987
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	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	0.1553	2.4209	1.2981	7.8100e-003	0.2953	0.0105	0.3058	0.0795	9.9600e-003	0.0894		827.2521	827.2521	0.0511		828.5285

3.5 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	6.5523	1.5513	8.1037	3.3675	1.4272	4.7947		2,988.0216	2,988.0216	0.9302		3,011.2769

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.5 Grading - 2018

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	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	2.7733	30.6725	16.5770	0.0297	2.9486	1.5513	4.4999	1.5154	1.4272	2.9426	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.5 Grading - 2018

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	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.6 Paving - 2019

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	0.0999	0.0734	0.9643	2.4400e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		242.5906	242.5906	8.3300e-003		242.7989
Total	0.0999	0.0734	0.9643	2.4400e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		242.5906	242.5906	8.3300e-003		242.7989

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	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.6 Paving - 2019

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	0.0999	0.0734	0.9643	2.4400e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		242.5906	242.5906	8.3300e-003		242.7989
Total	0.0999	0.0734	0.9643	2.4400e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		242.5906	242.5906	8.3300e-003		242.7989

3.7 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.7 Site Preparation - 2018

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	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	8.1298	2.5769	10.7067	4.4688	2.3708	6.8396	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

3.7 Site Preparation - 2018

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	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Increase Density
- Improve Walkability Design
- Increase Transit Accessibility
- Improve Pedestrian Network
- Limit Parking Supply

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2238	13.5607	33.3716	0.1004	7.4005	0.1016	7.5021	1.9807	0.0952	2.0759		10,207.356 2	10,207.356 2	0.5965		10,222.269 2
Unmitigated	4.1391	19.4599	56.9465	0.1854	14.3034	0.1847	14.4881	3.8282	0.1732	4.0014		18,831.765 3	18,831.765 3	1.0208		18,857.284 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,968.40	1,891.44	1734.56	6,574,600	3,401,644
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,968.40	1,891.44	1,734.56	6,574,600	3,401,644

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Unenclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
NaturalGas Unmitigated	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	13382.9	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	13382.9	0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1443	1.2333	0.5248	7.8700e-003		0.0997	0.0997		0.0997	0.0997		1,574.4595	1,574.4595	0.0302	0.0289	1,583.8158

6.0 Area Detail

6.1 Mitigation Measures Area

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.8245	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269
Unmitigated	7.6976	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

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	0.5234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4884	4.1736	1.7760	0.0266		0.3374	0.3374		0.3374	0.3374	0.0000	5,328.0000	5,328.0000	0.1021	0.0977	5,359.6616
Landscaping	0.7511	0.2839	24.5552	1.2900e-003		0.1349	0.1349		0.1349	0.1349		44.0857	44.0857	0.0432		45.1653
Total	7.6977	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269

Monrovia - Station Square South - Los Angeles-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4884	4.1736	1.7760	0.0266		0.3374	0.3374		0.3374	0.3374	0.0000	5,328.0000	5,328.0000	0.1021	0.0977	5,359.6616
Landscaping	0.7511	0.2839	24.5552	1.2900e-003		0.1349	0.1349		0.1349	0.1349		44.0857	44.0857	0.0432		45.1653
Total	7.8245	4.4575	26.3312	0.0279		0.4724	0.4724		0.4724	0.4724	0.0000	5,372.0857	5,372.0857	0.1453	0.0977	5,404.8269

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

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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Monrovia - Station Square South - Los Angeles-South Coast County, Summer

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

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

Monrovia - Station Square South
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	296.00	Dwelling Unit	3.19	296,000.00	591
Unenclosed Parking with Elevator	522.00	Space	0.56	208,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Lot size obtained from project description.

Population calculated from total number of bedrooms

Parking lot estimated to be 15% of parcel based on site plans

Demolition - From Project Description

Woodstoves - no wood stoves or fireplaces.

Construction Off-road Equipment Mitigation - Consistent with South Coast Fugitive dust Rules

Mobile Land Use Mitigation - Walkability is improved through access to Gold Line station

29% decrease in parking based compared to Monrovia standard - due to proximity to Gold Line Station

Area Mitigation - Numbers are from CALEEMOD data tables.

Energy Mitigation -

Water Mitigation -

Area Coating -

Architectural Coating - Use 10 g/L for super compliance

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblArchitecturalCoating	EF_Parking	100.00	10.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	10.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	10.00
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblLandUse	LotAcreage	7.79	3.19
tblLandUse	LotAcreage	4.70	0.56
tblLandUse	Population	847.00	591.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2018	8-31-2018	1.3232	1.3232
2	9-1-2018	11-30-2018	1.2223	1.2223
3	12-1-2018	2-28-2019	1.1397	1.1397
4	3-1-2019	5-31-2019	1.1192	1.1192
5	6-1-2019	8-31-2019	0.3887	0.3887
		Highest	1.3232	1.3232

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	1.2786	0.0877	3.0916	4.9000e-004		0.0211	0.0211		0.0211	0.0211	0.0000	65.4177	65.4177	6.0500e-003	1.1100e-003	65.8992
Energy	0.0263	0.2251	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	855.3678	855.3678	0.0296	9.8600e-003	859.0444
Mobile	0.7003	3.6274	9.7646	0.0318	2.4954	0.0329	2.5283	0.6690	0.0308	0.6998	0.0000	2,931.8088	2,931.8088	0.1634	0.0000	2,935.8926
Waste						0.0000	0.0000		0.0000	0.0000	27.6393	0.0000	27.6393	1.6334	0.0000	68.4751
Water						0.0000	0.0000		0.0000	0.0000	6.1184	123.0505	129.1689	0.6335	0.0159	149.7415
Total	2.0052	3.9401	12.9520	0.0337	2.4954	0.0722	2.5676	0.6690	0.0701	0.7391	33.7577	3,975.6448	4,009.4025	2.4659	0.0269	4,079.0528

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3018	0.0877	3.0916	4.9000e-004		0.0211	0.0211		0.0211	0.0211	0.0000	65.4177	65.4177	6.0500e-003	1.1100e-003	65.8992
Energy	0.0263	0.2251	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	855.3678	855.3678	0.0296	9.8600e-003	859.0444
Mobile	0.5401	2.4935	5.8544	0.0172	1.2911	0.0181	1.3092	0.3461	0.0170	0.3631	0.0000	1,588.8461	1,588.8461	0.0964	0.0000	1,591.2550
Waste						0.0000	0.0000		0.0000	0.0000	27.6393	0.0000	27.6393	1.6334	0.0000	68.4751
Water						0.0000	0.0000		0.0000	0.0000	6.1184	120.4251	126.5435	0.6334	0.0159	147.1067
Total	1.8682	2.8062	9.0417	0.0192	1.2911	0.0574	1.3485	0.3461	0.0563	0.4024	33.7577	2,630.0568	2,663.8145	2.3988	0.0268	2,731.7804

	ROG	NOx	CO	SO2	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	6.83	28.78	30.19	43.23	48.26	20.45	47.48	48.26	19.77	45.56	0.00	33.85	33.56	2.72	0.07	33.03

3.0 Construction Detail

Construction Phase

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/29/2019	7/24/2019	5	18	
2	Building Construction	Building Construction	7/18/2018	6/4/2019	5	230	
3	Demolition	Demolition	6/1/2018	6/28/2018	5	20	
4	Grading	Grading	7/6/2018	7/17/2018	5	8	
5	Paving	Paving	6/5/2019	6/28/2019	5	18	
6	Site Preparation	Site Preparation	6/29/2018	7/5/2018	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.56

Residential Indoor: 599,400; Residential Outdoor: 199,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 12,528 (Architectural Coating – sqft)

OffRoad Equipment

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Excavators	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

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
Architectural Coating	1	60.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	301.00	66.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	146.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1881					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028
Total	0.1905	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.2 Architectural Coating - 2019

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	2.7000e-003	2.2500e-003	0.0245	6.0000e-005	5.9200e-003	5.0000e-005	5.9700e-003	1.5700e-003	5.0000e-005	1.6200e-003	0.0000	5.6881	5.6881	2.0000e-004	0.0000	5.6930
Total	2.7000e-003	2.2500e-003	0.0245	6.0000e-005	5.9200e-003	5.0000e-005	5.9700e-003	1.5700e-003	5.0000e-005	1.6200e-003	0.0000	5.6881	5.6881	2.0000e-004	0.0000	5.6930

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1881					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028
Total	0.1905	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.2 Architectural Coating - 2019

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	2.7000e-003	2.2500e-003	0.0245	6.0000e-005	5.9200e-003	5.0000e-005	5.9700e-003	1.5700e-003	5.0000e-005	1.6200e-003	0.0000	5.6881	5.6881	2.0000e-004	0.0000	5.6930
Total	2.7000e-003	2.2500e-003	0.0245	6.0000e-005	5.9200e-003	5.0000e-005	5.9700e-003	1.5700e-003	5.0000e-005	1.6200e-003	0.0000	5.6881	5.6881	2.0000e-004	0.0000	5.6930

3.3 Building Construction - 2018

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	0.1594	1.3917	1.0460	1.6000e-003		0.0892	0.0892		0.0839	0.0839	0.0000	141.4715	141.4715	0.0347	0.0000	142.3380
Total	0.1594	1.3917	1.0460	1.6000e-003		0.0892	0.0892		0.0839	0.0839	0.0000	141.4715	141.4715	0.0347	0.0000	142.3380

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.3 Building Construction - 2018

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	0.0184	0.4918	0.1383	1.0300e-003	0.0247	3.4100e-003	0.0282	7.1400e-003	3.2700e-003	0.0104	0.0000	99.2221	99.2221	6.8100e-003	0.0000	99.3923
Worker	0.0992	0.0849	0.9131	2.1600e-003	0.1963	1.7800e-003	0.1980	0.0521	1.6500e-003	0.0538	0.0000	194.9977	194.9977	7.3300e-003	0.0000	195.1810
Total	0.1176	0.5767	1.0513	3.1900e-003	0.2210	5.1900e-003	0.2262	0.0593	4.9200e-003	0.0642	0.0000	294.2198	294.2198	0.0141	0.0000	294.5732

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	0.1594	1.3917	1.0460	1.6000e-003		0.0892	0.0892		0.0839	0.0839	0.0000	141.4713	141.4713	0.0347	0.0000	142.3378
Total	0.1594	1.3917	1.0460	1.6000e-003		0.0892	0.0892		0.0839	0.0839	0.0000	141.4713	141.4713	0.0347	0.0000	142.3378

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.3 Building Construction - 2018

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	0.0184	0.4918	0.1383	1.0300e-003	0.0247	3.4100e-003	0.0282	7.1400e-003	3.2700e-003	0.0104	0.0000	99.2221	99.2221	6.8100e-003	0.0000	99.3923
Worker	0.0992	0.0849	0.9131	2.1600e-003	0.1963	1.7800e-003	0.1980	0.0521	1.6500e-003	0.0538	0.0000	194.9977	194.9977	7.3300e-003	0.0000	195.1810
Total	0.1176	0.5767	1.0513	3.1900e-003	0.2210	5.1900e-003	0.2262	0.0593	4.9200e-003	0.0642	0.0000	294.2198	294.2198	0.0141	0.0000	294.5732

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1310	1.1699	0.9526	1.4900e-003		0.0716	0.0716		0.0673	0.0673	0.0000	130.4828	130.4828	0.0318	0.0000	131.2775
Total	0.1310	1.1699	0.9526	1.4900e-003		0.0716	0.0716		0.0673	0.0673	0.0000	130.4828	130.4828	0.0318	0.0000	131.2775

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.3 Building Construction - 2019

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	0.0155	0.4327	0.1183	9.5000e-004	0.0231	2.7200e-003	0.0258	6.6600e-003	2.6000e-003	9.2600e-003	0.0000	91.5986	91.5986	6.1100e-003	0.0000	91.7515
Worker	0.0837	0.0697	0.7584	1.9500e-003	0.1831	1.6100e-003	0.1847	0.0486	1.4800e-003	0.0501	0.0000	175.9686	175.9686	6.0500e-003	0.0000	176.1199
Total	0.0992	0.5024	0.8768	2.9000e-003	0.2061	4.3300e-003	0.2105	0.0553	4.0800e-003	0.0594	0.0000	267.5672	267.5672	0.0122	0.0000	267.8714

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	0.1310	1.1699	0.9526	1.4900e-003		0.0716	0.0716		0.0673	0.0673	0.0000	130.4827	130.4827	0.0318	0.0000	131.2773
Total	0.1310	1.1699	0.9526	1.4900e-003		0.0716	0.0716		0.0673	0.0673	0.0000	130.4827	130.4827	0.0318	0.0000	131.2773

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.3 Building Construction - 2019

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	0.0155	0.4327	0.1183	9.5000e-004	0.0231	2.7200e-003	0.0258	6.6600e-003	2.6000e-003	9.2600e-003	0.0000	91.5986	91.5986	6.1100e-003	0.0000	91.7515
Worker	0.0837	0.0697	0.7584	1.9500e-003	0.1831	1.6100e-003	0.1847	0.0486	1.4800e-003	0.0501	0.0000	175.9686	175.9686	6.0500e-003	0.0000	176.1199
Total	0.0992	0.5024	0.8768	2.9000e-003	0.2061	4.3300e-003	0.2105	0.0553	4.0800e-003	0.0594	0.0000	267.5672	267.5672	0.0122	0.0000	267.8714

3.4 Demolition - 2018

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					0.0158	0.0000	0.0158	2.4000e-003	0.0000	2.4000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181	0.0000	35.1241	35.1241	9.6800e-003	0.0000	35.3660
Total	0.0372	0.3832	0.2230	3.9000e-004	0.0158	0.0194	0.0352	2.4000e-003	0.0181	0.0205	0.0000	35.1241	35.1241	9.6800e-003	0.0000	35.3660

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.4 Demolition - 2018

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	7.3000e-004	0.0244	5.0300e-003	6.0000e-005	1.2500e-003	9.0000e-005	1.3400e-003	3.4000e-004	9.0000e-005	4.3000e-004	0.0000	5.7580	5.7580	4.1000e-004	0.0000	5.7681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	7.1000e-004	7.6500e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6332	1.6332	6.0000e-005	0.0000	1.6347
Total	1.5600e-003	0.0251	0.0127	8.0000e-005	2.8900e-003	1.0000e-004	3.0000e-003	7.8000e-004	1.0000e-004	8.8000e-004	0.0000	7.3912	7.3912	4.7000e-004	0.0000	7.4028

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					7.1300e-003	0.0000	7.1300e-003	1.0800e-003	0.0000	1.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0372	0.3832	0.2230	3.9000e-004		0.0194	0.0194		0.0181	0.0181	0.0000	35.1240	35.1240	9.6800e-003	0.0000	35.3660
Total	0.0372	0.3832	0.2230	3.9000e-004	7.1300e-003	0.0194	0.0265	1.0800e-003	0.0181	0.0191	0.0000	35.1240	35.1240	9.6800e-003	0.0000	35.3660

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.4 Demolition - 2018

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	7.3000e-004	0.0244	5.0300e-003	6.0000e-005	1.2500e-003	9.0000e-005	1.3400e-003	3.4000e-004	9.0000e-005	4.3000e-004	0.0000	5.7580	5.7580	4.1000e-004	0.0000	5.7681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	7.1000e-004	7.6500e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6332	1.6332	6.0000e-005	0.0000	1.6347
Total	1.5600e-003	0.0251	0.0127	8.0000e-005	2.8900e-003	1.0000e-004	3.0000e-003	7.8000e-004	1.0000e-004	8.8000e-004	0.0000	7.3912	7.3912	4.7000e-004	0.0000	7.4028

3.5 Grading - 2018

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1227	0.0663	1.2000e-004		6.2100e-003	6.2100e-003		5.7100e-003	5.7100e-003	0.0000	10.8428	10.8428	3.3800e-003	0.0000	10.9271
Total	0.0111	0.1227	0.0663	1.2000e-004	0.0262	6.2100e-003	0.0324	0.0135	5.7100e-003	0.0192	0.0000	10.8428	10.8428	3.3800e-003	0.0000	10.9271

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.5 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.8000e-004	3.0600e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6533	0.6533	2.0000e-005	0.0000	0.6539
Total	3.3000e-004	2.8000e-004	3.0600e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6533	0.6533	2.0000e-005	0.0000	0.6539

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					0.0118	0.0000	0.0118	6.0600e-003	0.0000	6.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1227	0.0663	1.2000e-004		6.2100e-003	6.2100e-003		5.7100e-003	5.7100e-003	0.0000	10.8427	10.8427	3.3800e-003	0.0000	10.9271
Total	0.0111	0.1227	0.0663	1.2000e-004	0.0118	6.2100e-003	0.0180	6.0600e-003	5.7100e-003	0.0118	0.0000	10.8427	10.8427	3.3800e-003	0.0000	10.9271

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.5 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.8000e-004	3.0600e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6533	0.6533	2.0000e-005	0.0000	0.6539
Total	3.3000e-004	2.8000e-004	3.0600e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6533	0.6533	2.0000e-005	0.0000	0.6539

3.6 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0114	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003	0.0000	15.0501	15.0501	4.6300e-003	0.0000	15.1658
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0114	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003	0.0000	15.0501	15.0501	4.6300e-003	0.0000	15.1658

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.6 Paving - 2019

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	9.0000e-004	7.5000e-004	8.1700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8960	1.8960	7.0000e-005	0.0000	1.8977
Total	9.0000e-004	7.5000e-004	8.1700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8960	1.8960	7.0000e-005	0.0000	1.8977

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	0.0114	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003	0.0000	15.0501	15.0501	4.6300e-003	0.0000	15.1658
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0114	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003	0.0000	15.0501	15.0501	4.6300e-003	0.0000	15.1658

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.6 Paving - 2019

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	9.0000e-004	7.5000e-004	8.1700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8960	1.8960	7.0000e-005	0.0000	1.8977
Total	9.0000e-004	7.5000e-004	8.1700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8960	1.8960	7.0000e-005	0.0000	1.8977

3.7 Site Preparation - 2018

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1205	0.0562	1.0000e-004		6.4400e-003	6.4400e-003		5.9300e-003	5.9300e-003	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576
Total	0.0114	0.1205	0.0562	1.0000e-004	0.0452	6.4400e-003	0.0516	0.0248	5.9300e-003	0.0308	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.7 Site Preparation - 2018

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	2.5000e-004	2.1000e-004	2.2900e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4900	0.4900	2.0000e-005	0.0000	0.4904
Total	2.5000e-004	2.1000e-004	2.2900e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4900	0.4900	2.0000e-005	0.0000	0.4904

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					0.0203	0.0000	0.0203	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1205	0.0562	1.0000e-004		6.4400e-003	6.4400e-003		5.9300e-003	5.9300e-003	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576
Total	0.0114	0.1205	0.0562	1.0000e-004	0.0203	6.4400e-003	0.0268	0.0112	5.9300e-003	0.0171	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

3.7 Site Preparation - 2018**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	2.5000e-004	2.1000e-004	2.2900e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4900	0.4900	2.0000e-005	0.0000	0.4904
Total	2.5000e-004	2.1000e-004	2.2900e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4900	0.4900	2.0000e-005	0.0000	0.4904

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Improve Walkability Design

Increase Transit Accessibility

Improve Pedestrian Network

Limit Parking Supply

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.5401	2.4935	5.8544	0.0172	1.2911	0.0181	1.3092	0.3461	0.0170	0.3631	0.0000	1,588.8461	1,588.8461	0.0964	0.0000	1,591.2550
Unmitigated	0.7003	3.6274	9.7646	0.0318	2.4954	0.0329	2.5283	0.6690	0.0308	0.6998	0.0000	2,931.8088	2,931.8088	0.1634	0.0000	2,935.8926

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,968.40	1,891.44	1,734.56	6,574,600	3,401,644
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,968.40	1,891.44	1,734.56	6,574,600	3,401,644

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Unenclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Unenclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	594.6984	594.6984	0.0246	5.0800e-003	596.8260
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	594.6984	594.6984	0.0246	5.0800e-003	596.8260
NaturalGas Mitigated	0.0263	0.2251	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.6694	260.6694	5.0000e-003	4.7800e-003	262.2185
NaturalGas Unmitigated	0.0263	0.2251	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.6694	260.6694	5.0000e-003	4.7800e-003	262.2185

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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					
Apartments Mid Rise	4.88476e+006	0.0263	0.2251	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.6694	260.6694	5.0000e-003	4.7800e-003	262.2185
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0263	0.2251	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.6694	260.6694	5.0000e-003	4.7800e-003	262.2185

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					
Apartments Mid Rise	4.88476e+006	0.0263	0.2251	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.6694	260.6694	5.0000e-003	4.7800e-003	262.2185
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0263	0.2251	0.0958	1.4400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	260.6694	260.6694	5.0000e-003	4.7800e-003	262.2185

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.27766e+006	407.0890	0.0168	3.4800e-003	408.5454
Unenclosed Parking with Elevator	588816	187.6094	7.7500e-003	1.6000e-003	188.2806
Total		594.6984	0.0246	5.0800e-003	596.8260

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.27766e+006	407.0890	0.0168	3.4800e-003	408.5454
Unenclosed Parking with Elevator	588816	187.6094	7.7500e-003	1.6000e-003	188.2806
Total		594.6984	0.0246	5.0800e-003	596.8260

6.0 Area Detail

6.1 Mitigation Measures Area

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	1.3018	0.0877	3.0916	4.9000e-004		0.0211	0.0211		0.0211	0.0211	0.0000	65.4177	65.4177	6.0500e-003	1.1100e-003	65.8992
Unmitigated	1.2786	0.0877	3.0916	4.9000e-004		0.0211	0.0211		0.0211	0.0211	0.0000	65.4177	65.4177	6.0500e-003	1.1100e-003	65.8992

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

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	0.0955					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.1100e-003	0.0522	0.0222	3.3000e-004		4.2200e-003	4.2200e-003		4.2200e-003	4.2200e-003	0.0000	60.4185	60.4185	1.1600e-003	1.1100e-003	60.7775
Landscaping	0.0939	0.0355	3.0694	1.6000e-004		0.0169	0.0169		0.0169	0.0169	0.0000	4.9992	4.9992	4.9000e-003	0.0000	5.1217
Total	1.2786	0.0877	3.0916	4.9000e-004		0.0211	0.0211		0.0211	0.0211	0.0000	65.4177	65.4177	6.0600e-003	1.1100e-003	65.8992

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1187					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.1100e-003	0.0522	0.0222	3.3000e-004		4.2200e-003	4.2200e-003		4.2200e-003	4.2200e-003	0.0000	60.4185	60.4185	1.1600e-003	1.1100e-003	60.7775
Landscaping	0.0939	0.0355	3.0694	1.6000e-004		0.0169	0.0169		0.0169	0.0169	0.0000	4.9992	4.9992	4.9000e-003	0.0000	5.1217
Total	1.3018	0.0877	3.0916	4.9000e-004		0.0211	0.0211		0.0211	0.0211	0.0000	65.4177	65.4177	6.0600e-003	1.1100e-003	65.8992

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	126.5435	0.6334	0.0159	147.1067
Unmitigated	129.1689	0.6335	0.0159	149.7415

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	19.2856 / 12.1583	129.1689	0.6335	0.0159	149.7415
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		129.1689	0.6335	0.0159	149.7415

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	19.2856 / 11.4167	126.5435	0.6334	0.0159	147.1067
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		126.5435	0.6334	0.0159	147.1067

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	27.6393	1.6334	0.0000	68.4751
Unmitigated	27.6393	1.6334	0.0000	68.4751

Monrovia - Station Square South - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	136.16	27.6393	1.6334	0.0000	68.4751
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		27.6393	1.6334	0.0000	68.4751

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	136.16	27.6393	1.6334	0.0000	68.4751
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		27.6393	1.6334	0.0000	68.4751

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Monrovia - Station Square South - Los Angeles-South Coast County, Annual

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
