



APPENDIX A

Air Quality/Greenhouse Gas Data

250 East Union Street - Los Angeles-South Coast County, Winter

250 East Union Street
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	115.00	Space	1.03	46,000.00	0
Parking Lot	41.00	Space	0.37	16,400.00	0
Condo/Townhouse High Rise	59.00	Dwelling Unit	0.92	59,000.00	169
Regional Shopping Center	1.95	1000sqft	0.04	1,953.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2021
Utility Company	Pasadena Water & Power				
CO2 Intensity (lb/MWhr)	1664.14	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

250 East Union Street - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Per project description.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Demolition -

Grading - Per project description.

Vehicle Trips - Per traffic study.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Trips and VMT - Per construction questionnaire.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	220.00	396.00
tblConstructionPhase	NumDays	10.00	24.00
tblGrading	AcresOfGrading	0.00	0.50

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tblGrading	MaterialExported	0.00	23,000.00
tblLandUse	LandUseSquareFeet	1,950.00	1,953.00
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	2,875.00	2,300.00
tblVehicleTrips	ST_TR	4.31	5.81
tblVehicleTrips	ST_TR	49.97	11.01
tblVehicleTrips	SU_TR	3.43	5.81
tblVehicleTrips	SU_TR	25.24	11.01
tblVehicleTrips	WD_TR	4.18	5.81
tblVehicleTrips	WD_TR	42.70	11.01

2.0 Emissions Summary

250 East Union Street - Los Angeles-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.6415	63.5934	41.9600	0.1223	1.2981	2.9222	3.3065	0.3438	2.7305	2.8307	0.0000	12,469.8478	12,469.8478	2.7622	0.0000	12,538.9033
2020	5.1249	42.2033	35.7936	0.0820	0.8801	2.0694	2.9495	0.2359	1.9733	2.2091	0.0000	7,825.9044	7,825.9044	1.5984	0.0000	7,865.8637
2021	21.8177	39.9444	37.2525	0.0862	1.0366	1.9021	2.9387	0.2774	1.8173	2.0947	0.0000	8,230.0800	8,230.0800	1.5982	0.0000	8,270.0338
Maximum	21.8177	63.5934	41.9600	0.1223	1.2981	2.9222	3.3065	0.3438	2.7305	2.8307	0.0000	12,469.8478	12,469.8478	2.7622	0.0000	12,538.9033

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.6415	63.5934	41.9600	0.1223	1.0028	2.9222	3.2138	0.2759	2.7305	2.8088	0.0000	12,469.8478	12,469.8478	2.7622	0.0000	12,538.9033
2020	5.1249	42.2033	35.7936	0.0820	0.6856	2.0694	2.7550	0.1881	1.9733	2.1614	0.0000	7,825.9044	7,825.9044	1.5984	0.0000	7,865.8637
2021	21.8177	39.9444	37.2525	0.0862	0.8067	1.9021	2.7088	0.2210	1.8173	2.0383	0.0000	8,230.0800	8,230.0800	1.5982	0.0000	8,270.0338
Maximum	21.8177	63.5934	41.9600	0.1223	1.0028	2.9222	3.2138	0.2759	2.7305	2.8088	0.0000	12,469.8478	12,469.8478	2.7622	0.0000	12,538.9033

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	22.38	0.00	5.62	20.08	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	16.9493	1.2806	34.8989	0.0768		4.5339	4.5339		4.5339	4.5339	552.6482	1,070.799 2	1,623.447 3	1.6567	0.0375	1,676.042 5
Energy	0.0192	0.1644	0.0703	1.0500e-003		0.0133	0.0133		0.0133	0.0133		209.8036	209.8036	4.0200e-003	3.8500e-003	211.0503
Mobile	0.6798	3.3691	9.0414	0.0312	2.5896	0.0272	2.6167	0.6930	0.0254	0.7184		3,170.813 3	3,170.813 3	0.1727		3,175.129 8
Total	17.6483	4.8141	44.0106	0.1090	2.5896	4.5743	7.1639	0.6930	4.5725	5.2655	552.6482	4,451.416 0	5,004.064 2	1.8334	0.0414	5,062.222 6

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	1.5922	0.9373	5.2692	5.8800e-003		0.0982	0.0982		0.0982	0.0982	0.0000	1,133.269 7	1,133.269 7	0.0301	0.0206	1,140.166 5
Energy	0.0184	0.1573	0.0673	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.7986	200.7986	3.8500e-003	3.6800e-003	201.9918
Mobile	0.6798	3.3691	9.0414	0.0312	2.5896	0.0272	2.6167	0.6930	0.0254	0.7184		3,170.813 3	3,170.813 3	0.1727		3,175.129 8
Total	2.2905	4.4637	14.3778	0.0381	2.5896	0.1380	2.7276	0.6930	0.1362	0.8293	0.0000	4,504.881 6	4,504.881 6	0.2067	0.0243	4,517.288 2

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	87.02	7.28	67.33	65.10	0.00	96.98	61.93	0.00	97.02	84.25	100.00	-1.20	9.98	88.73	41.25	10.76

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2019	4/1/2019	5	22	
2	Grading	Grading	4/2/2019	5/31/2019	5	44	
3	Paving	Paving	6/1/2019	8/1/2019	5	44	
4	Building Construction	Building Construction	8/2/2019	2/5/2021	5	396	
5	Architectural Coating	Architectural Coating	1/5/2021	2/5/2021	5	24	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.5

Acres of Paving: 1.4

Residential Indoor: 119,475; Residential Outdoor: 39,825; Non-Residential Indoor: 2,930; Non-Residential Outdoor: 977; Striped Parking Area: 3,744 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Off-Highway Trucks	4	8.00	402	0.38
Paving	Cement and Mortar Mixers	1	8.00	9	0.56

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Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Signal Boards	1	8.00	6	0.82
Building Construction	Forklifts	2	7.00	89	0.20
Grading	Bore/Drill Rigs	1	6.00	221	0.50
Grading	Excavators	1	6.00	158	0.38
Grading	Graders	0	0.00	187	0.41
Grading	Off-Highway Trucks	6	6.00	402	0.38
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Signal Boards	1	8.00	6	0.82
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Concrete/Industrial Saws	2	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Signal Boards	1	6.00	6	0.82
Building Construction	Surfacing Equipment	2	8.00	263	0.30
Building Construction	Welders	3	8.00	46	0.45
Building Construction	Trenchers	1	8.00	78	0.50

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Grading	Rubber Tired Dozers	0	6.00	247	0.40
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	13	33.00	0.00	1.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	2,300.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	69.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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3.2 Demolition - 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					
Fugitive Dust					0.0146	0.0000	0.0146	2.2100e-003	0.0000	2.2100e-003			0.0000			0.0000
Off-Road	6.4584	63.4451	40.4967	0.0961		2.9190	2.9190		2.7275	2.7275		9,435.4207	9,435.4207	2.6725		9,502.2338
Total	6.4584	63.4451	40.4967	0.0961	0.0146	2.9190	2.9336	2.2100e-003	2.7275	2.7297		9,435.4207	9,435.4207	2.6725		9,502.2338

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	4.4000e-004	0.0141	3.1700e-003	4.0000e-005	7.9000e-004	5.0000e-005	8.5000e-004	2.2000e-004	5.0000e-005	2.7000e-004		3.8630	3.8630	2.8000e-004		3.8700
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	0.1827	0.1342	1.4602	3.7900e-003	0.3689	3.1800e-003	0.3720	0.0978	2.9300e-003	0.1008		376.9032	376.9032	0.0130		377.2273
Total	0.1832	0.1483	1.4633	3.8300e-003	0.3697	3.2300e-003	0.3729	0.0980	2.9800e-003	0.1010		380.7661	380.7661	0.0133		381.0973

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3.2 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4100e-003	0.0000	5.4100e-003	8.2000e-004	0.0000	8.2000e-004			0.0000			0.0000
Off-Road	6.4584	63.4451	40.4967	0.0961		2.9190	2.9190		2.7275	2.7275	0.0000	9,435.4206	9,435.4206	2.6725		9,502.2338
Total	6.4584	63.4451	40.4967	0.0961	5.4100e-003	2.9190	2.9244	8.2000e-004	2.7275	2.7283	0.0000	9,435.4206	9,435.4206	2.6725		9,502.2338

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	4.4000e-004	0.0141	3.1700e-003	4.0000e-005	6.4000e-004	5.0000e-005	6.9000e-004	1.8000e-004	5.0000e-005	2.3000e-004		3.8630	3.8630	2.8000e-004		3.8700
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	0.1827	0.1342	1.4602	3.7900e-003	0.2855	3.1800e-003	0.2887	0.0774	2.9300e-003	0.0803		376.9032	376.9032	0.0130		377.2273
Total	0.1832	0.1483	1.4633	3.8300e-003	0.2861	3.2300e-003	0.2894	0.0775	2.9800e-003	0.0805		380.7661	380.7661	0.0133		381.0973

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3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0712	0.0000	0.0712	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	4.1307	42.8655	25.2703	0.0781		1.6044	1.6044		1.4772	1.4772		7,707.655 1	7,707.655 1	2.4281		7,768.358 6
Total	4.1307	42.8655	25.2703	0.0781	0.0712	1.6044	1.6756	0.0103	1.4772	1.4874		7,707.655 1	7,707.655 1	2.4281		7,768.358 6

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	0.5035	16.2239	3.6442	0.0411	0.9139	0.0599	0.9738	0.2505	0.0573	0.3078		4,442.396 1	4,442.396 1	0.3231		4,450.473 1
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	0.1551	0.1138	1.2389	3.2100e-003	0.3130	2.7000e-003	0.3157	0.0830	2.4900e-003	0.0855		319.7966	319.7966	0.0110		320.0717
Total	0.6586	16.3377	4.8832	0.0443	1.2269	0.0626	1.2895	0.3335	0.0598	0.3933		4,762.192 7	4,762.192 7	0.3341		4,770.544 8

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3.3 Grading - 2019

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					0.0264	0.0000	0.0264	3.8000e-003	0.0000	3.8000e-003			0.0000			0.0000
Off-Road	4.1307	42.8655	25.2703	0.0781		1.6044	1.6044		1.4772	1.4772	0.0000	7,707.6551	7,707.6551	2.4281		7,768.3586
Total	4.1307	42.8655	25.2703	0.0781	0.0264	1.6044	1.6308	3.8000e-003	1.4772	1.4810	0.0000	7,707.6551	7,707.6551	2.4281		7,768.3586

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	0.5035	16.2239	3.6442	0.0411	0.7342	0.0599	0.7941	0.2064	0.0573	0.2637		4,442.3961	4,442.3961	0.3231		4,450.4731
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	0.1551	0.1138	1.2389	3.2100e-003	0.2422	2.7000e-003	0.2449	0.0656	2.4900e-003	0.0681		319.7966	319.7966	0.0110		320.0717
Total	0.6586	16.3377	4.8832	0.0443	0.9765	0.0626	1.0390	0.2721	0.0598	0.3318		4,762.1927	4,762.1927	0.3341		4,770.5448

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3.4 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	1.0761	10.6870	10.2446	0.0159		0.5967	0.5967		0.5512	0.5512		1,535.8730	1,535.8730	0.4647		1,547.4908
Paving	0.0220					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0982	10.6870	10.2446	0.0159		0.5967	0.5967		0.5512	0.5512		1,535.8730	1,535.8730	0.4647		1,547.4908

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	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670
Total	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670

250 East Union Street - Los Angeles-South Coast County, Winter

3.4 Paving - 2019

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	1.0761	10.6870	10.2446	0.0159		0.5967	0.5967		0.5512	0.5512	0.0000	1,535.8730	1,535.8730	0.4647		1,547.4908
Paving	0.0220					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0982	10.6870	10.2446	0.0159		0.5967	0.5967		0.5512	0.5512	0.0000	1,535.8730	1,535.8730	0.4647		1,547.4908

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	0.0831	0.0610	0.6637	1.7200e-003	0.1298	1.4500e-003	0.1312	0.0352	1.3300e-003	0.0365		171.3196	171.3196	5.8900e-003		171.4670
Total	0.0831	0.0610	0.6637	1.7200e-003	0.1298	1.4500e-003	0.1312	0.0352	1.3300e-003	0.0365		171.3196	171.3196	5.8900e-003		171.4670

250 East Union Street - Los Angeles-South Coast County, Winter

3.5 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	5.1212	43.3664	33.0127	0.0700		2.3006	2.3006		2.1961	2.1961		6,695.7196	6,695.7196	1.5685		6,734.9311
Total	5.1212	43.3664	33.0127	0.0700		2.3006	2.3006		2.1961	2.1961		6,695.7196	6,695.7196	1.5685		6,734.9311

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	0.0737	1.9700	0.5754	4.3200e-003	0.1088	0.0128	0.1216	0.0313	0.0122	0.0435		461.1711	461.1711	0.0324		461.9810
Worker	0.3821	0.2806	3.0531	7.9200e-003	0.7713	6.6500e-003	0.7779	0.2045	6.1300e-003	0.2107		788.0703	788.0703	0.0271		788.7480
Total	0.4558	2.2506	3.6285	0.0122	0.8801	0.0194	0.8995	0.2359	0.0183	0.2542		1,249.2414	1,249.2414	0.0595		1,250.7290

250 East Union Street - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2019

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	5.1212	43.3664	33.0127	0.0700		2.3006	2.3006		2.1961	2.1961	0.0000	6,695.7196	6,695.7196	1.5685		6,734.9311
Total	5.1212	43.3664	33.0127	0.0700		2.3006	2.3006		2.1961	2.1961	0.0000	6,695.7196	6,695.7196	1.5685		6,734.9311

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	0.0737	1.9700	0.5754	4.3200e-003	0.0887	0.0128	0.1014	0.0264	0.0122	0.0386		461.1711	461.1711	0.0324		461.9810
Worker	0.3821	0.2806	3.0531	7.9200e-003	0.5969	6.6500e-003	0.6036	0.1618	6.1300e-003	0.1679		788.0703	788.0703	0.0271		788.7480
Total	0.4558	2.2506	3.6285	0.0122	0.6856	0.0194	0.7050	0.1881	0.0183	0.2065		1,249.2414	1,249.2414	0.0595		1,250.7290

250 East Union Street - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.7090	40.1452	32.5041	0.0700		2.0543	2.0543		1.9590	1.9590		6,603.7209	6,603.7209	1.5437		6,642.3123
Total	4.7090	40.1452	32.5041	0.0700		2.0543	2.0543		1.9590	1.9590		6,603.7209	6,603.7209	1.5437		6,642.3123

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	0.0632	1.8080	0.5226	4.2900e-003	0.1088	8.6500e-003	0.1175	0.0313	8.2700e-003	0.0396		458.0634	458.0634	0.0306		458.8292
Worker	0.3526	0.2501	2.7670	7.6700e-003	0.7713	6.4500e-003	0.7777	0.2045	5.9400e-003	0.2105		764.1201	764.1201	0.0241		764.7222
Total	0.4158	2.0581	3.2895	0.0120	0.8801	0.0151	0.8952	0.2359	0.0142	0.2501		1,222.1835	1,222.1835	0.0547		1,223.5514

250 East Union Street - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2020

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	4.7090	40.1452	32.5041	0.0700		2.0543	2.0543		1.9590	1.9590	0.0000	6,603.7209	6,603.7209	1.5437		6,642.3123
Total	4.7090	40.1452	32.5041	0.0700		2.0543	2.0543		1.9590	1.9590	0.0000	6,603.7209	6,603.7209	1.5437		6,642.3123

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	0.0632	1.8080	0.5226	4.2900e-003	0.0887	8.6500e-003	0.0973	0.0264	8.2700e-003	0.0347		458.0634	458.0634	0.0306		458.8292
Worker	0.3526	0.2501	2.7670	7.6700e-003	0.5969	6.4500e-003	0.6034	0.1618	5.9400e-003	0.1677		764.1201	764.1201	0.0241		764.7222
Total	0.4158	2.0581	3.2895	0.0120	0.6856	0.0151	0.7007	0.1881	0.0142	0.2024		1,222.1835	1,222.1835	0.0547		1,223.5514

250 East Union Street - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2888	36.4998	31.9011	0.0700		1.7970	1.7970		1.7130	1.7130		6,604.1762	6,604.1762	1.5233		6,642.2588
Total	4.2888	36.4998	31.9011	0.0700		1.7970	1.7970		1.7130	1.7130		6,604.1762	6,604.1762	1.5233		6,642.2588

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0543	1.6471	0.4773	4.2500e-003	0.1088	3.4800e-003	0.1123	0.0313	3.3300e-003	0.0347		454.4874	454.4874	0.0293		455.2209
Worker	0.3290	0.2250	2.5410	7.4300e-003	0.7713	6.2300e-003	0.7775	0.2045	5.7400e-003	0.2103		739.8533	739.8533	0.0218		740.3975
Total	0.3833	1.8722	3.0183	0.0117	0.8801	9.7100e-003	0.8898	0.2359	9.0700e-003	0.2450		1,194.3406	1,194.3406	0.0511		1,195.6184

250 East Union Street - Los Angeles-South Coast County, Winter

3.5 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2888	36.4998	31.9011	0.0700		1.7970	1.7970		1.7130	1.7130	0.0000	6,604.1762	6,604.1762	1.5233		6,642.2588
Total	4.2888	36.4998	31.9011	0.0700		1.7970	1.7970		1.7130	1.7130	0.0000	6,604.1762	6,604.1762	1.5233		6,642.2588

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0543	1.6471	0.4773	4.2500e-003	0.0887	3.4800e-003	0.0922	0.0264	3.3300e-003	0.0297		454.4874	454.4874	0.0293		455.2209
Worker	0.3290	0.2250	2.5410	7.4300e-003	0.5969	6.2300e-003	0.6032	0.1618	5.7400e-003	0.1675		739.8533	739.8533	0.0218		740.3975
Total	0.3833	1.8722	3.0183	0.0117	0.6856	9.7100e-003	0.6953	0.1881	9.0700e-003	0.1972		1,194.3406	1,194.3406	0.0511		1,195.6184

250 East Union Street - Los Angeles-South Coast County, Winter

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.8600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	17.0789	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0668	0.0457	0.5156	1.5100e-003	0.1565	1.2600e-003	0.1578	0.0415	1.1600e-003	0.0427		150.1152	150.1152	4.4200e-003		150.2256
Total	0.0668	0.0457	0.5156	1.5100e-003	0.1565	1.2600e-003	0.1578	0.0415	1.1600e-003	0.0427		150.1152	150.1152	4.4200e-003		150.2256

250 East Union Street - Los Angeles-South Coast County, Winter

3.6 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.8600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	17.0789	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.0668	0.0457	0.5156	1.5100e-003	0.1211	1.2600e-003	0.1224	0.0328	1.1600e-003	0.0340		150.1152	150.1152	4.4200e-003		150.2256
Total	0.0668	0.0457	0.5156	1.5100e-003	0.1211	1.2600e-003	0.1224	0.0328	1.1600e-003	0.0340		150.1152	150.1152	4.4200e-003		150.2256

4.0 Operational Detail - Mobile

250 East Union Street - Los Angeles-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6798	3.3691	9.0414	0.0312	2.5896	0.0272	2.6167	0.6930	0.0254	0.7184		3,170.8133	3,170.8133	0.1727		3,175.1298
Unmitigated	0.6798	3.3691	9.0414	0.0312	2.5896	0.0272	2.6167	0.6930	0.0254	0.7184		3,170.8133	3,170.8133	0.1727		3,175.1298

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	342.79	342.79	342.79	1,171,366	1,171,366
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	21.47	21.47	21.47	46,435	46,435
Total	364.26	364.26	364.26	1,217,801	1,217,801

4.3 Trip Type Information

250 East Union Street - Los Angeles-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Enclosed Parking with Elevator	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Regional Shopping Center	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

250 East Union Street - 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					
NaturalGas Mitigated	0.0184	0.1573	0.0673	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.7986	200.7986	3.8500e-003	3.6800e-003	201.9918
NaturalGas Unmitigated	0.0192	0.1644	0.0703	1.0500e-003		0.0133	0.0133		0.0133	0.0133		209.8036	209.8036	4.0200e-003	3.8500e-003	211.0503

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	1774.56	0.0191	0.1635	0.0696	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.7712	208.7712	4.0000e-003	3.8300e-003	210.0118
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	8.77512	9.0000e-005	8.6000e-004	7.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		1.0324	1.0324	2.0000e-005	2.0000e-005	1.0385
Total		0.0192	0.1644	0.0703	1.0500e-003		0.0133	0.0133		0.0133	0.0133		209.8036	209.8036	4.0200e-003	3.8500e-003	211.0503

250 East Union Street - Los Angeles-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	1.69863	0.0183	0.1565	0.0666	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.8386	199.8386	3.8300e-003	3.6600e-003	201.0261
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.00815979	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9600	0.9600	2.0000e-005	2.0000e-005	0.9657
Total		0.0184	0.1573	0.0673	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.7986	200.7986	3.8500e-003	3.6800e-003	201.9918

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

250 East Union Street - 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	1.5922	0.9373	5.2692	5.8800e-003		0.0982	0.0982		0.0982	0.0982	0.0000	1,133.2697	1,133.2697	0.0301	0.0206	1,140.1665
Unmitigated	16.9493	1.2806	34.8989	0.0768		4.5339	4.5339		4.5339	4.5339	552.6482	1,070.7992	1,623.4473	1.6567	0.0375	1,676.0425

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	0.1109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2290					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	15.4601	1.2242	30.0046	0.0765		4.5069	4.5069		4.5069	4.5069	552.6482	1,062.0000	1,614.6482	1.6481	0.0375	1,667.0287
Landscaping	0.1493	0.0565	4.8943	2.6000e-004		0.0270	0.0270		0.0270	0.0270		8.7992	8.7992	8.5900e-003		9.0138
Total	16.9493	1.2806	34.8989	0.0768		4.5339	4.5339		4.5339	4.5339	552.6482	1,070.7992	1,623.4473	1.6567	0.0375	1,676.0425

250 East Union Street - 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	0.1109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2290					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1031	0.8808	0.3748	5.6200e-003		0.0712	0.0712		0.0712	0.0712	0.0000	1,124.4706	1,124.4706	0.0216	0.0206	1,131.1528
Landscaping	0.1493	0.0565	4.8943	2.6000e-004		0.0270	0.0270		0.0270	0.0270		8.7992	8.7992	8.5900e-003		9.0138
Total	1.5922	0.9373	5.2692	5.8800e-003		0.0982	0.0982		0.0982	0.0982	0.0000	1,133.2697	1,133.2697	0.0301	0.0206	1,140.1665

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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250 East Union Street - 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

250 East Union Street - Los Angeles-South Coast County, Summer

250 East Union Street
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	115.00	Space	1.03	46,000.00	0
Parking Lot	41.00	Space	0.37	16,400.00	0
Condo/Townhouse High Rise	59.00	Dwelling Unit	0.92	59,000.00	169
Regional Shopping Center	1.95	1000sqft	0.04	1,953.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2021
Utility Company	Pasadena Water & Power				
CO2 Intensity (lb/MW hr)	1664.14	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

250 East Union Street - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Per project description.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Demolition -

Grading - Per project description.

Vehicle Trips - Per traffic study.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Trips and VMT - Per construction questionnaire.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	220.00	396.00
tblConstructionPhase	NumDays	10.00	24.00
tblGrading	AcresOfGrading	0.00	0.50

250 East Union Street - Los Angeles-South Coast County, Summer

tblGrading	MaterialExported	0.00	23,000.00
tblLandUse	LandUseSquareFeet	1,950.00	1,953.00
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	2,875.00	2,300.00
tblVehicleTrips	ST_TR	4.31	5.81
tblVehicleTrips	ST_TR	49.97	11.01
tblVehicleTrips	SU_TR	3.43	5.81
tblVehicleTrips	SU_TR	25.24	11.01
tblVehicleTrips	WD_TR	4.18	5.81
tblVehicleTrips	WD_TR	42.70	11.01

2.0 Emissions Summary

250 East Union Street - Los Angeles-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.6236	63.5802	42.0908	0.1233	1.2981	2.9222	3.3065	0.3438	2.7305	2.8307	0.0000	12,566.3206	12,566.3206	2.7510	0.0000	12,635.0962
2020	5.0870	42.1794	35.9990	0.0826	0.8801	2.0693	2.9493	0.2359	1.9731	2.2090	0.0000	7,886.1808	7,886.1808	1.5980	0.0000	7,926.1303
2021	21.7752	39.9217	37.4932	0.0868	1.0366	1.9020	2.9385	0.2774	1.8172	2.0946	0.0000	8,298.1003	8,298.1003	1.5980	0.0000	8,338.0503
Maximum	21.7752	63.5802	42.0908	0.1233	1.2981	2.9222	3.3065	0.3438	2.7305	2.8307	0.0000	12,566.3206	12,566.3206	2.7510	0.0000	12,635.0962

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.6236	63.5802	42.0908	0.1233	1.0028	2.9222	3.2138	0.2759	2.7305	2.8088	0.0000	12,566.3206	12,566.3206	2.7510	0.0000	12,635.0962
2020	5.0870	42.1794	35.9990	0.0826	0.6856	2.0693	2.7548	0.1881	1.9731	2.1613	0.0000	7,886.1808	7,886.1808	1.5980	0.0000	7,926.1303
2021	21.7752	39.9217	37.4932	0.0868	0.8067	1.9020	2.7087	0.2210	1.8172	2.0382	0.0000	8,298.1003	8,298.1003	1.5980	0.0000	8,338.0503
Maximum	21.7752	63.5802	42.0908	0.1233	1.0028	2.9222	3.2138	0.2759	2.7305	2.8088	0.0000	12,566.3206	12,566.3206	2.7510	0.0000	12,635.0962

250 East Union Street - 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	0.00	0.00	0.00	0.00	22.38	0.00	5.62	20.08	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00

250 East Union Street - 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	16.9493	1.2806	34.8989	0.0768		4.5339	4.5339		4.5339	4.5339	552.6482	1,070.799 2	1,623.447 3	1.6567	0.0375	1,676.042 5
Energy	0.0192	0.1644	0.0703	1.0500e-003		0.0133	0.0133		0.0133	0.0133		209.8036	209.8036	4.0200e-003	3.8500e-003	211.0503
Mobile	0.6997	3.2839	9.5203	0.0328	2.5896	0.0270	2.6166	0.6930	0.0252	0.7183		3,332.236 8	3,332.236 8	0.1734		3,336.570 9
Total	17.6682	4.7289	44.4895	0.1106	2.5896	4.5742	7.1637	0.6930	4.5724	5.2654	552.6482	4,612.839 5	5,165.487 7	1.8341	0.0414	5,223.663 7

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	1.5922	0.9373	5.2692	5.8800e-003		0.0982	0.0982		0.0982	0.0982	0.0000	1,133.269 7	1,133.269 7	0.0301	0.0206	1,140.166 5
Energy	0.0184	0.1573	0.0673	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.7986	200.7986	3.8500e-003	3.6800e-003	201.9918
Mobile	0.6997	3.2839	9.5203	0.0328	2.5896	0.0270	2.6166	0.6930	0.0252	0.7183		3,332.236 8	3,332.236 8	0.1734		3,336.570 9
Total	2.3103	4.3785	14.8567	0.0397	2.5896	0.1379	2.7275	0.6930	0.1361	0.8291	0.0000	4,666.305 1	4,666.305 1	0.2074	0.0243	4,678.729 2

250 East Union Street - 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	86.92	7.41	66.61	64.15	0.00	96.99	61.93	0.00	97.02	84.25	100.00	-1.16	9.66	88.69	41.25	10.43

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2019	4/1/2019	5	22	
2	Grading	Grading	4/2/2019	5/31/2019	5	44	
3	Paving	Paving	6/1/2019	8/1/2019	5	44	
4	Building Construction	Building Construction	8/2/2019	2/5/2021	5	396	
5	Architectural Coating	Architectural Coating	1/5/2021	2/5/2021	5	24	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.5

Acres of Paving: 1.4

Residential Indoor: 119,475; Residential Outdoor: 39,825; Non-Residential Indoor: 2,930; Non-Residential Outdoor: 977; Striped Parking Area: 3,744 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Off-Highway Trucks	4	8.00	402	0.38
Paving	Cement and Mortar Mixers	1	8.00	9	0.56

250 East Union Street - Los Angeles-South Coast County, Summer

Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Signal Boards	1	8.00	6	0.82
Building Construction	Forklifts	2	7.00	89	0.20
Grading	Bore/Drill Rigs	1	6.00	221	0.50
Grading	Excavators	1	6.00	158	0.38
Grading	Graders	0	0.00	187	0.41
Grading	Off-Highway Trucks	6	6.00	402	0.38
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Signal Boards	1	8.00	6	0.82
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Concrete/Industrial Saws	2	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Signal Boards	1	6.00	6	0.82
Building Construction	Surfacing Equipment	2	8.00	263	0.30
Building Construction	Welders	3	8.00	46	0.45
Building Construction	Trenchers	1	8.00	78	0.50

250 East Union Street - Los Angeles-South Coast County, Summer

Grading	Rubber Tired Dozers	0	6.00	247	0.40
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	13	33.00	0.00	1.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	2,300.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	69.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

250 East Union Street - Los Angeles-South Coast County, Summer

3.2 Demolition - 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					
Fugitive Dust					0.0146	0.0000	0.0146	2.2100e-003	0.0000	2.2100e-003			0.0000			0.0000
Off-Road	6.4584	63.4451	40.4967	0.0961		2.9190	2.9190		2.7275	2.7275		9,435.4207	9,435.4207	2.6725		9,502.2338
Total	6.4584	63.4451	40.4967	0.0961	0.0146	2.9190	2.9336	2.2100e-003	2.7275	2.7297		9,435.4207	9,435.4207	2.6725		9,502.2338

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	4.3000e-004	0.0139	2.9700e-003	4.0000e-005	7.9000e-004	5.0000e-005	8.5000e-004	2.2000e-004	5.0000e-005	2.7000e-004		3.9296	3.9296	2.7000e-004		3.9364
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	0.1649	0.1212	1.5911	4.0200e-003	0.3689	3.1800e-003	0.3720	0.0978	2.9300e-003	0.1008		400.2745	400.2745	0.0138		400.6182
Total	0.1653	0.1351	1.5941	4.0600e-003	0.3697	3.2300e-003	0.3729	0.0980	2.9800e-003	0.1010		404.2041	404.2041	0.0140		404.5545

250 East Union Street - Los Angeles-South Coast County, Summer

3.2 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4100e-003	0.0000	5.4100e-003	8.2000e-004	0.0000	8.2000e-004			0.0000			0.0000
Off-Road	6.4584	63.4451	40.4967	0.0961		2.9190	2.9190		2.7275	2.7275	0.0000	9,435.4206	9,435.4206	2.6725		9,502.2338
Total	6.4584	63.4451	40.4967	0.0961	5.4100e-003	2.9190	2.9244	8.2000e-004	2.7275	2.7283	0.0000	9,435.4206	9,435.4206	2.6725		9,502.2338

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	4.3000e-004	0.0139	2.9700e-003	4.0000e-005	6.4000e-004	5.0000e-005	6.9000e-004	1.8000e-004	5.0000e-005	2.3000e-004		3.9296	3.9296	2.7000e-004		3.9364
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	0.1649	0.1212	1.5911	4.0200e-003	0.2855	3.1800e-003	0.2887	0.0774	2.9300e-003	0.0803		400.2745	400.2745	0.0138		400.6182
Total	0.1653	0.1351	1.5941	4.0600e-003	0.2861	3.2300e-003	0.2894	0.0775	2.9800e-003	0.0805		404.2041	404.2041	0.0140		404.5545

250 East Union Street - Los Angeles-South Coast County, Summer

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0712	0.0000	0.0712	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	4.1307	42.8655	25.2703	0.0781		1.6044	1.6044		1.4772	1.4772		7,707.655 1	7,707.655 1	2.4281		7,768.358 6
Total	4.1307	42.8655	25.2703	0.0781	0.0712	1.6044	1.6756	0.0103	1.4772	1.4874		7,707.655 1	7,707.655 1	2.4281		7,768.358 6

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	0.4912	16.0103	3.4135	0.0418	0.9139	0.0588	0.9727	0.2505	0.0562	0.3067		4,519.038 7	4,519.038 7	0.3112		4,526.819 2
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	0.1399	0.1028	1.3501	3.4100e-003	0.3130	2.7000e-003	0.3157	0.0830	2.4900e-003	0.0855		339.6268	339.6268	0.0117		339.9185
Total	0.6311	16.1131	4.7636	0.0452	1.2269	0.0615	1.2884	0.3335	0.0587	0.3922		4,858.665 5	4,858.665 5	0.3229		4,866.737 7

250 East Union Street - Los Angeles-South Coast County, Summer

3.3 Grading - 2019

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					0.0264	0.0000	0.0264	3.8000e-003	0.0000	3.8000e-003			0.0000			0.0000
Off-Road	4.1307	42.8655	25.2703	0.0781		1.6044	1.6044		1.4772	1.4772	0.0000	7,707.6551	7,707.6551	2.4281		7,768.3586
Total	4.1307	42.8655	25.2703	0.0781	0.0264	1.6044	1.6308	3.8000e-003	1.4772	1.4810	0.0000	7,707.6551	7,707.6551	2.4281		7,768.3586

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	0.4912	16.0103	3.4135	0.0418	0.7342	0.0588	0.7930	0.2064	0.0562	0.2626		4,519.0387	4,519.0387	0.3112		4,526.8192
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	0.1399	0.1028	1.3501	3.4100e-003	0.2422	2.7000e-003	0.2449	0.0656	2.4900e-003	0.0681		339.6268	339.6268	0.0117		339.9185
Total	0.6311	16.1131	4.7636	0.0452	0.9765	0.0615	1.0379	0.2721	0.0587	0.3307		4,858.6655	4,858.6655	0.3229		4,866.7377

250 East Union Street - Los Angeles-South Coast County, Summer

3.4 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	1.0761	10.6870	10.2446	0.0159		0.5967	0.5967		0.5512	0.5512		1,535.8730	1,535.8730	0.4647		1,547.4908
Paving	0.0220					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0982	10.6870	10.2446	0.0159		0.5967	0.5967		0.5512	0.5512		1,535.8730	1,535.8730	0.4647		1,547.4908

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	0.0749	0.0551	0.7233	1.8300e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		181.9429	181.9429	6.2500e-003		182.0992
Total	0.0749	0.0551	0.7233	1.8300e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		181.9429	181.9429	6.2500e-003		182.0992

250 East Union Street - Los Angeles-South Coast County, Summer

3.4 Paving - 2019

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	1.0761	10.6870	10.2446	0.0159		0.5967	0.5967		0.5512	0.5512	0.0000	1,535.8730	1,535.8730	0.4647		1,547.4908
Paving	0.0220					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0982	10.6870	10.2446	0.0159		0.5967	0.5967		0.5512	0.5512	0.0000	1,535.8730	1,535.8730	0.4647		1,547.4908

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	0.0749	0.0551	0.7233	1.8300e-003	0.1298	1.4500e-003	0.1312	0.0352	1.3300e-003	0.0365		181.9429	181.9429	6.2500e-003		182.0992
Total	0.0749	0.0551	0.7233	1.8300e-003	0.1298	1.4500e-003	0.1312	0.0352	1.3300e-003	0.0365		181.9429	181.9429	6.2500e-003		182.0992

250 East Union Street - Los Angeles-South Coast County, Summer

3.5 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	5.1212	43.3664	33.0127	0.0700		2.3006	2.3006		2.1961	2.1961		6,695.7196	6,695.7196	1.5685		6,734.9311
Total	5.1212	43.3664	33.0127	0.0700		2.3006	2.3006		2.1961	2.1961		6,695.7196	6,695.7196	1.5685		6,734.9311

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	0.0706	1.9674	0.5220	4.4400e-003	0.1088	0.0125	0.1214	0.0313	0.0120	0.0433		473.9849	473.9849	0.0304		474.7442
Worker	0.3447	0.2533	3.3269	8.4100e-003	0.7713	6.6500e-003	0.7779	0.2045	6.1300e-003	0.2107		836.9375	836.9375	0.0288		837.6562
Total	0.4153	2.2207	3.8490	0.0129	0.8801	0.0192	0.8993	0.2359	0.0181	0.2540		1,310.9223	1,310.9223	0.0591		1,312.4004

250 East Union Street - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2019

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	5.1212	43.3664	33.0127	0.0700		2.3006	2.3006		2.1961	2.1961	0.0000	6,695.7196	6,695.7196	1.5685		6,734.9311
Total	5.1212	43.3664	33.0127	0.0700		2.3006	2.3006		2.1961	2.1961	0.0000	6,695.7196	6,695.7196	1.5685		6,734.9311

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	0.0706	1.9674	0.5220	4.4400e-003	0.0887	0.0125	0.1012	0.0264	0.0120	0.0384		473.9849	473.9849	0.0304		474.7442
Worker	0.3447	0.2533	3.3269	8.4100e-003	0.5969	6.6500e-003	0.6036	0.1618	6.1300e-003	0.1679		836.9375	836.9375	0.0288		837.6562
Total	0.4153	2.2207	3.8490	0.0129	0.6856	0.0192	0.7048	0.1881	0.0181	0.2063		1,310.9223	1,310.9223	0.0591		1,312.4004

250 East Union Street - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.7090	40.1452	32.5041	0.0700		2.0543	2.0543		1.9590	1.9590		6,603.7209	6,603.7209	1.5437		6,642.3123
Total	4.7090	40.1452	32.5041	0.0700		2.0543	2.0543		1.9590	1.9590		6,603.7209	6,603.7209	1.5437		6,642.3123

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	0.0605	1.8083	0.4738	4.4100e-003	0.1088	8.5100e-003	0.1174	0.0313	8.1400e-003	0.0395		470.9420	470.9420	0.0287		471.6604
Worker	0.3175	0.2259	3.0211	8.1500e-003	0.7713	6.4500e-003	0.7777	0.2045	5.9400e-003	0.2105		811.5179	811.5179	0.0256		812.1575
Total	0.3780	2.0342	3.4949	0.0126	0.8801	0.0150	0.8951	0.2359	0.0141	0.2500		1,282.4599	1,282.4599	0.0543		1,283.8180

250 East Union Street - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2020

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	4.7090	40.1452	32.5041	0.0700		2.0543	2.0543		1.9590	1.9590	0.0000	6,603.7209	6,603.7209	1.5437		6,642.3123
Total	4.7090	40.1452	32.5041	0.0700		2.0543	2.0543		1.9590	1.9590	0.0000	6,603.7209	6,603.7209	1.5437		6,642.3123

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	0.0605	1.8083	0.4738	4.4100e-003	0.0887	8.5100e-003	0.0972	0.0264	8.1400e-003	0.0345		470.9420	470.9420	0.0287		471.6604
Worker	0.3175	0.2259	3.0211	8.1500e-003	0.5969	6.4500e-003	0.6034	0.1618	5.9400e-003	0.1677		811.5179	811.5179	0.0256		812.1575
Total	0.3780	2.0342	3.4949	0.0126	0.6856	0.0150	0.7006	0.1881	0.0141	0.2022		1,282.4599	1,282.4599	0.0543		1,283.8180

250 East Union Street - Los Angeles-South Coast County, Summer

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2888	36.4998	31.9011	0.0700		1.7970	1.7970		1.7130	1.7130		6,604.1762	6,604.1762	1.5233		6,642.2588
Total	4.2888	36.4998	31.9011	0.0700		1.7970	1.7970		1.7130	1.7130		6,604.1762	6,604.1762	1.5233		6,642.2588

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	1.6505	0.4315	4.3700e-003	0.1088	3.3800e-003	0.1122	0.0313	3.2300e-003	0.0346		467.2971	467.2971	0.0275		467.9853
Worker	0.2958	0.2033	2.7791	7.8900e-003	0.7713	6.2300e-003	0.7775	0.2045	5.7400e-003	0.2103		785.7512	785.7512	0.0232		786.3300
Total	0.3474	1.8538	3.2106	0.0123	0.8801	9.6100e-003	0.8897	0.2359	8.9700e-003	0.2448		1,253.0483	1,253.0483	0.0507		1,254.3153

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3.5 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.2888	36.4998	31.9011	0.0700		1.7970	1.7970		1.7130	1.7130	0.0000	6,604.1762	6,604.1762	1.5233		6,642.2588
Total	4.2888	36.4998	31.9011	0.0700		1.7970	1.7970		1.7130	1.7130	0.0000	6,604.1762	6,604.1762	1.5233		6,642.2588

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	1.6505	0.4315	4.3700e-003	0.0887	3.3800e-003	0.0921	0.0264	3.2300e-003	0.0296		467.2971	467.2971	0.0275		467.9853
Worker	0.2958	0.2033	2.7791	7.8900e-003	0.5969	6.2300e-003	0.6032	0.1618	5.7400e-003	0.1675		785.7512	785.7512	0.0232		786.3300
Total	0.3474	1.8538	3.2106	0.0123	0.6856	9.6100e-003	0.6952	0.1881	8.9700e-003	0.1971		1,253.0483	1,253.0483	0.0507		1,254.3153

250 East Union Street - Los Angeles-South Coast County, Summer

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.8600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	17.0789	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0600	0.0413	0.5639	1.6000e-003	0.1565	1.2600e-003	0.1578	0.0415	1.1600e-003	0.0427		159.4278	159.4278	4.7000e-003		159.5452
Total	0.0600	0.0413	0.5639	1.6000e-003	0.1565	1.2600e-003	0.1578	0.0415	1.1600e-003	0.0427		159.4278	159.4278	4.7000e-003		159.5452

250 East Union Street - Los Angeles-South Coast County, Summer

3.6 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.8600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	17.0789	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.0600	0.0413	0.5639	1.6000e-003	0.1211	1.2600e-003	0.1224	0.0328	1.1600e-003	0.0340		159.4278	159.4278	4.7000e-003		159.5452
Total	0.0600	0.0413	0.5639	1.6000e-003	0.1211	1.2600e-003	0.1224	0.0328	1.1600e-003	0.0340		159.4278	159.4278	4.7000e-003		159.5452

4.0 Operational Detail - Mobile

250 East Union Street - Los Angeles-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6997	3.2839	9.5203	0.0328	2.5896	0.0270	2.6166	0.6930	0.0252	0.7183		3,332.2368	3,332.2368	0.1734		3,336.5709
Unmitigated	0.6997	3.2839	9.5203	0.0328	2.5896	0.0270	2.6166	0.6930	0.0252	0.7183		3,332.2368	3,332.2368	0.1734		3,336.5709

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	342.79	342.79	342.79	1,171,366	1,171,366
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	21.47	21.47	21.47	46,435	46,435
Total	364.26	364.26	364.26	1,217,801	1,217,801

4.3 Trip Type Information

250 East Union Street - Los Angeles-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Enclosed Parking with Elevator	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Regional Shopping Center	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

250 East Union Street - 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					
NaturalGas Mitigated	0.0184	0.1573	0.0673	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.7986	200.7986	3.8500e-003	3.6800e-003	201.9918
NaturalGas Unmitigated	0.0192	0.1644	0.0703	1.0500e-003		0.0133	0.0133		0.0133	0.0133		209.8036	209.8036	4.0200e-003	3.8500e-003	211.0503

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	1774.56	0.0191	0.1635	0.0696	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.7712	208.7712	4.0000e-003	3.8300e-003	210.0118
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	8.77512	9.0000e-005	8.6000e-004	7.2000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		1.0324	1.0324	2.0000e-005	2.0000e-005	1.0385
Total		0.0192	0.1644	0.0703	1.0500e-003		0.0133	0.0133		0.0133	0.0133		209.8036	209.8036	4.0200e-003	3.8500e-003	211.0503

250 East Union Street - Los Angeles-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	1.69863	0.0183	0.1565	0.0666	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.8386	199.8386	3.8300e-003	3.6600e-003	201.0261
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.00815979	9.0000e-005	8.0000e-004	6.7000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.9600	0.9600	2.0000e-005	2.0000e-005	0.9657
Total		0.0184	0.1573	0.0673	1.0000e-003		0.0127	0.0127		0.0127	0.0127		200.7986	200.7986	3.8500e-003	3.6800e-003	201.9918

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

250 East Union Street - 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	1.5922	0.9373	5.2692	5.8800e-003		0.0982	0.0982		0.0982	0.0982	0.0000	1,133.2697	1,133.2697	0.0301	0.0206	1,140.1665
Unmitigated	16.9493	1.2806	34.8989	0.0768		4.5339	4.5339		4.5339	4.5339	552.6482	1,070.7992	1,623.4473	1.6567	0.0375	1,676.0425

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	0.1109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2290					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	15.4601	1.2242	30.0046	0.0765		4.5069	4.5069		4.5069	4.5069	552.6482	1,062.0000	1,614.6482	1.6481	0.0375	1,667.0287
Landscaping	0.1493	0.0565	4.8943	2.6000e-004		0.0270	0.0270		0.0270	0.0270		8.7992	8.7992	8.5900e-003		9.0138
Total	16.9493	1.2806	34.8989	0.0768		4.5339	4.5339		4.5339	4.5339	552.6482	1,070.7992	1,623.4473	1.6567	0.0375	1,676.0425

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2290					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1031	0.8808	0.3748	5.6200e-003		0.0712	0.0712		0.0712	0.0712	0.0000	1,124.4706	1,124.4706	0.0216	0.0206	1,131.1528
Landscaping	0.1493	0.0565	4.8943	2.6000e-004		0.0270	0.0270		0.0270	0.0270		8.7992	8.7992	8.5900e-003		9.0138
Total	1.5922	0.9373	5.2692	5.8800e-003		0.0982	0.0982		0.0982	0.0982	0.0000	1,133.2697	1,133.2697	0.0301	0.0206	1,140.1665

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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250 East Union Street
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	115.00	Space	1.03	46,000.00	0
Parking Lot	41.00	Space	0.37	16,400.00	0
Condo/Townhouse High Rise	59.00	Dwelling Unit	0.92	59,000.00	169
Regional Shopping Center	1.95	1000sqft	0.04	1,953.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2021
Utility Company	Pasadena Water & Power				
CO2 Intensity (lb/MWhr)	1664.14	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Per project description.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Demolition -

Grading - Per project description.

Vehicle Trips - Per traffic study.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Trips and VMT - Per construction questionnaire.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	220.00	396.00
tblConstructionPhase	NumDays	10.00	24.00
tblGrading	AcresOfGrading	0.00	0.50

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tblGrading	MaterialExported	0.00	23,000.00
tblLandUse	LandUseSquareFeet	1,950.00	1,953.00
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblTripsAndVMT	HaulingTripNumber	2,875.00	2,300.00
tblVehicleTrips	ST_TR	4.31	5.81
tblVehicleTrips	ST_TR	49.97	11.01
tblVehicleTrips	SU_TR	3.43	5.81
tblVehicleTrips	SU_TR	25.24	11.01
tblVehicleTrips	WD_TR	4.18	5.81
tblVehicleTrips	WD_TR	42.70	11.01

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.5027	4.7114	3.3451	8.6400e-003	0.0825	0.2072	0.2897	0.0220	0.1956	0.2176	0.0000	772.2293	772.2293	0.1709	0.0000	776.5021
2020	0.6667	5.5340	4.6954	0.0108	0.1131	0.2711	0.3842	0.0304	0.2585	0.2888	0.0000	932.4385	932.4385	0.1899	0.0000	937.1854
2021	0.2660	0.5182	0.4827	1.1200e-003	0.0131	0.0246	0.0377	3.5000e-003	0.0235	0.0270	0.0000	96.9292	96.9292	0.0188	0.0000	97.3996
Maximum	0.6667	5.5340	4.6954	0.0108	0.1131	0.2711	0.3842	0.0304	0.2585	0.2888	0.0000	932.4385	932.4385	0.1899	0.0000	937.1854

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.5027	4.7114	3.3451	8.6400e-003	0.0640	0.2072	0.2712	0.0176	0.1956	0.2132	0.0000	772.2285	772.2285	0.1709	0.0000	776.5014
2020	0.6667	5.5340	4.6954	0.0108	0.0882	0.2711	0.3593	0.0242	0.2585	0.2827	0.0000	932.4376	932.4376	0.1899	0.0000	937.1845
2021	0.2660	0.5182	0.4827	1.1200e-003	0.0102	0.0246	0.0348	2.7900e-003	0.0235	0.0263	0.0000	96.9291	96.9291	0.0188	0.0000	97.3995
Maximum	0.6667	5.5340	4.6954	0.0108	0.0882	0.2711	0.3593	0.0242	0.2585	0.2827	0.0000	932.4376	932.4376	0.1899	0.0000	937.1845

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	22.17	0.00	6.50	20.14	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2019	5-31-2019	2.1685	2.1685
2	6-1-2019	8-31-2019	0.8116	0.8116
3	9-1-2019	11-30-2019	1.6631	1.6631
4	12-1-2019	2-29-2020	1.5810	1.5810
5	3-1-2020	5-31-2020	1.5537	1.5537
6	6-1-2020	8-31-2020	1.5530	1.5530
7	9-1-2020	11-30-2020	1.5375	1.5375
8	12-1-2020	2-28-2021	1.2913	1.2913
		Highest	2.1685	2.1685

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2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4564	0.0224	0.9869	9.9000e-004		0.0597	0.0597		0.0597	0.0597	6.2669	13.0407	19.3076	0.0197	4.3000e-004	19.9259
Energy	3.5100e-003	0.0300	0.0128	1.9000e-004		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	454.5400	454.5400	7.9800e-003	2.1500e-003	455.3803
Mobile	0.1209	0.6247	1.6691	5.7500e-003	0.4622	4.9200e-003	0.4671	0.1239	4.5900e-003	0.1285	0.0000	530.8842	530.8842	0.0284	0.0000	531.5943
Waste						0.0000	0.0000		0.0000	0.0000	5.9253	0.0000	5.9253	0.3502	0.0000	14.6797
Water						0.0000	0.0000		0.0000	0.0000	1.2654	60.2685	61.5339	0.1310	3.2900e-003	65.7886
Total	0.5809	0.6770	2.6688	6.9300e-003	0.4622	0.0670	0.5292	0.1239	0.0667	0.1906	13.4576	1,058.7334	1,072.1910	0.5373	5.8700e-003	1,087.3689

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2645	0.0181	0.6165	1.0000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	13.7491	13.7491	1.2200e-003	2.3000e-004	13.8492
Energy	3.3600e-003	0.0287	0.0123	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	437.6972	437.6972	7.6900e-003	2.0700e-003	438.5055
Mobile	0.1209	0.6247	1.6691	5.7500e-003	0.4622	4.9200e-003	0.4671	0.1239	4.5900e-003	0.1285	0.0000	530.8842	530.8842	0.0284	0.0000	531.5943
Waste						0.0000	0.0000		0.0000	0.0000	2.9627	0.0000	2.9627	0.1751	0.0000	7.3399
Water						0.0000	0.0000		0.0000	0.0000	1.2654	60.2685	61.5339	0.1310	3.2900e-003	65.7886
Total	0.3887	0.6715	2.2979	6.0300e-003	0.4622	0.0115	0.4737	0.1239	0.0112	0.1351	4.2280	1,042.5990	1,046.8271	0.3434	5.5900e-003	1,057.0775

	ROG	NOx	CO	SO2	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	33.08	0.82	13.90	12.99	0.00	82.85	10.49	0.00	83.26	29.14	68.58	1.52	2.37	36.08	4.77	2.79

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2019	4/1/2019	5	22	
2	Grading	Grading	4/2/2019	5/31/2019	5	44	
3	Paving	Paving	6/1/2019	8/1/2019	5	44	
4	Building Construction	Building Construction	8/2/2019	2/5/2021	5	396	
5	Architectural Coating	Architectural Coating	1/5/2021	2/5/2021	5	24	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.5

Acres of Paving: 1.4

Residential Indoor: 119,475; Residential Outdoor: 39,825; Non-Residential Indoor: 2,930; Non-Residential Outdoor: 977; Striped Parking Area: 3,744 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Excavators	1	8.00	158	0.38
Demolition	Off-Highway Trucks	4	8.00	402	0.38
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Signal Boards	1	8.00	6	0.82
Building Construction	Forklifts	2	7.00	89	0.20
Grading	Bore/Drill Rigs	1	6.00	221	0.50
Grading	Excavators	1	6.00	158	0.38
Grading	Graders	0	0.00	187	0.41

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Grading	Off-Highway Trucks	6	6.00	402	0.38
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Signal Boards	1	8.00	6	0.82
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Concrete/Industrial Saws	2	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Rubber Tired Loaders	1	6.00	203	0.36
Building Construction	Signal Boards	1	6.00	6	0.82
Building Construction	Surfacing Equipment	2	8.00	263	0.30
Building Construction	Welders	3	8.00	46	0.45
Building Construction	Trenchers	1	8.00	78	0.50
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	13	33.00	0.00	1.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	2,300.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	69.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6000e-004	0.0000	1.6000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0710	0.6979	0.4455	1.0600e-003		0.0321	0.0321		0.0300	0.0300	0.0000	94.1564	94.1564	0.0267	0.0000	94.8231
Total	0.0710	0.6979	0.4455	1.0600e-003	1.6000e-004	0.0321	0.0323	2.0000e-005	0.0300	0.0300	0.0000	94.1564	94.1564	0.0267	0.0000	94.8231

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3.2 Demolition - 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	1.6000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0389	0.0389	0.0000	0.0000	0.0390
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8200e-003	1.5200e-003	0.0165	4.0000e-005	3.9800e-003	3.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.8237	3.8237	1.3000e-004	0.0000	3.8270
Total	1.8200e-003	1.6800e-003	0.0165	4.0000e-005	3.9900e-003	3.0000e-005	4.0200e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.8626	3.8626	1.3000e-004	0.0000	3.8660

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					6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0710	0.6979	0.4455	1.0600e-003		0.0321	0.0321		0.0300	0.0300	0.0000	94.1563	94.1563	0.0267	0.0000	94.8230
Total	0.0710	0.6979	0.4455	1.0600e-003	6.0000e-005	0.0321	0.0322	1.0000e-005	0.0300	0.0300	0.0000	94.1563	94.1563	0.0267	0.0000	94.8230

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3.2 Demolition - 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	1.6000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0389	0.0389	0.0000	0.0000	0.0390
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8200e-003	1.5200e-003	0.0165	4.0000e-005	3.0800e-003	3.0000e-005	3.1200e-003	8.4000e-004	3.0000e-005	8.7000e-004	0.0000	3.8237	3.8237	1.3000e-004	0.0000	3.8270
Total	1.8200e-003	1.6800e-003	0.0165	4.0000e-005	3.0900e-003	3.0000e-005	3.1300e-003	8.4000e-004	3.0000e-005	8.7000e-004	0.0000	3.8626	3.8626	1.3000e-004	0.0000	3.8660

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5700e-003	0.0000	1.5700e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0909	0.9430	0.5560	1.7200e-003		0.0353	0.0353		0.0325	0.0325	0.0000	153.8299	153.8299	0.0485	0.0000	155.0414
Total	0.0909	0.9430	0.5560	1.7200e-003	1.5700e-003	0.0353	0.0369	2.3000e-004	0.0325	0.0327	0.0000	153.8299	153.8299	0.0485	0.0000	155.0414

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3.3 Grading - 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	0.0109	0.3640	0.0773	9.1000e-004	0.0198	1.3000e-003	0.0211	5.4300e-003	1.2500e-003	6.6700e-003	0.0000	89.5488	89.5488	6.3200e-003	0.0000	89.7067
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	3.0900e-003	2.5700e-003	0.0280	7.0000e-005	6.7500e-003	6.0000e-005	6.8100e-003	1.7900e-003	5.0000e-005	1.8500e-003	0.0000	6.4887	6.4887	2.2000e-004	0.0000	6.4943
Total	0.0140	0.3665	0.1053	9.8000e-004	0.0265	1.3600e-003	0.0279	7.2200e-003	1.3000e-003	8.5200e-003	0.0000	96.0375	96.0375	6.5400e-003	0.0000	96.2010

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					5.8000e-004	0.0000	5.8000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0909	0.9430	0.5560	1.7200e-003		0.0353	0.0353		0.0325	0.0325	0.0000	153.8297	153.8297	0.0485	0.0000	155.0412
Total	0.0909	0.9430	0.5560	1.7200e-003	5.8000e-004	0.0353	0.0359	8.0000e-005	0.0325	0.0326	0.0000	153.8297	153.8297	0.0485	0.0000	155.0412

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3.3 Grading - 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	0.0109	0.3640	0.0773	9.1000e-004	0.0159	1.3000e-003	0.0172	4.4800e-003	1.2500e-003	5.7200e-003	0.0000	89.5488	89.5488	6.3200e-003	0.0000	89.7067
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	3.0900e-003	2.5700e-003	0.0280	7.0000e-005	5.2300e-003	6.0000e-005	5.2900e-003	1.4200e-003	5.0000e-005	1.4700e-003	0.0000	6.4887	6.4887	2.2000e-004	0.0000	6.4943
Total	0.0140	0.3665	0.1053	9.8000e-004	0.0211	1.3600e-003	0.0225	5.9000e-003	1.3000e-003	7.1900e-003	0.0000	96.0375	96.0375	6.5400e-003	0.0000	96.2010

3.4 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	0.0237	0.2351	0.2254	3.5000e-004		0.0131	0.0131		0.0121	0.0121	0.0000	30.6531	30.6531	9.2700e-003	0.0000	30.8849
Paving	4.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0242	0.2351	0.2254	3.5000e-004		0.0131	0.0131		0.0121	0.0121	0.0000	30.6531	30.6531	9.2700e-003	0.0000	30.8849

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3.4 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	1.6500e-003	1.3800e-003	0.0150	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.4761	3.4761	1.2000e-004	0.0000	3.4791
Total	1.6500e-003	1.3800e-003	0.0150	4.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.4761	3.4761	1.2000e-004	0.0000	3.4791

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	0.0237	0.2351	0.2254	3.5000e-004		0.0131	0.0131		0.0121	0.0121	0.0000	30.6530	30.6530	9.2700e-003	0.0000	30.8849
Paving	4.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0242	0.2351	0.2254	3.5000e-004		0.0131	0.0131		0.0121	0.0121	0.0000	30.6530	30.6530	9.2700e-003	0.0000	30.8849

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3.4 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	1.6500e-003	1.3800e-003	0.0150	4.0000e-005	2.8000e-003	3.0000e-005	2.8300e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	3.4761	3.4761	1.2000e-004	0.0000	3.4791
Total	1.6500e-003	1.3800e-003	0.0150	4.0000e-005	2.8000e-003	3.0000e-005	2.8300e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	3.4761	3.4761	1.2000e-004	0.0000	3.4791

3.5 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	0.2766	2.3418	1.7827	3.7800e-003		0.1242	0.1242		0.1186	0.1186	0.0000	328.0098	328.0098	0.0768	0.0000	329.9306
Total	0.2766	2.3418	1.7827	3.7800e-003		0.1242	0.1242		0.1186	0.1186	0.0000	328.0098	328.0098	0.0768	0.0000	329.9306

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3.5 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	3.8900e-003	0.1084	0.0297	2.4000e-004	5.7800e-003	6.8000e-004	6.4600e-003	1.6700e-003	6.5000e-004	2.3200e-003	0.0000	22.9559	22.9559	1.5300e-003	0.0000	22.9942
Worker	0.0187	0.0156	0.1692	4.3000e-004	0.0408	3.6000e-004	0.0412	0.0108	3.3000e-004	0.0112	0.0000	39.2481	39.2481	1.3500e-003	0.0000	39.2818
Total	0.0226	0.1240	0.1988	6.7000e-004	0.0466	1.0400e-003	0.0477	0.0125	9.8000e-004	0.0135	0.0000	62.2040	62.2040	2.8800e-003	0.0000	62.2761

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	0.2766	2.3418	1.7827	3.7800e-003		0.1242	0.1242		0.1186	0.1186	0.0000	328.0094	328.0094	0.0768	0.0000	329.9303
Total	0.2766	2.3418	1.7827	3.7800e-003		0.1242	0.1242		0.1186	0.1186	0.0000	328.0094	328.0094	0.0768	0.0000	329.9303

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3.5 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	3.8900e-003	0.1084	0.0297	2.4000e-004	4.7200e-003	6.8000e-004	5.4000e-003	1.4100e-003	6.5000e-004	2.0600e-003	0.0000	22.9559	22.9559	1.5300e-003	0.0000	22.9942
Worker	0.0187	0.0156	0.1692	4.3000e-004	0.0316	3.6000e-004	0.0320	8.5900e-003	3.3000e-004	8.9200e-003	0.0000	39.2481	39.2481	1.3500e-003	0.0000	39.2818
Total	0.0226	0.1240	0.1988	6.7000e-004	0.0364	1.0400e-003	0.0374	0.0100	9.8000e-004	0.0110	0.0000	62.2040	62.2040	2.8800e-003	0.0000	62.2761

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.6169	5.2590	4.2580	9.1700e-003		0.2691	0.2691		0.2566	0.2566	0.0000	784.7941	784.7941	0.1835	0.0000	789.3804
Total	0.6169	5.2590	4.2580	9.1700e-003		0.2691	0.2691		0.2566	0.2566	0.0000	784.7941	784.7941	0.1835	0.0000	789.3804

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3.5 Building Construction - 2020

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	8.0800e-003	0.2413	0.0653	5.7000e-004	0.0140	1.1200e-003	0.0152	4.0500e-003	1.0700e-003	5.1200e-003	0.0000	55.3245	55.3245	3.5200e-003	0.0000	55.4124
Worker	0.0417	0.0337	0.3721	1.0200e-003	0.0991	8.4000e-004	0.0999	0.0263	7.8000e-004	0.0271	0.0000	92.3199	92.3199	2.9100e-003	0.0000	92.3926
Total	0.0498	0.2750	0.4374	1.5900e-003	0.1131	1.9600e-003	0.1150	0.0304	1.8500e-003	0.0322	0.0000	147.6444	147.6444	6.4300e-003	0.0000	147.8050

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	0.6169	5.2590	4.2580	9.1700e-003		0.2691	0.2691		0.2566	0.2566	0.0000	784.7932	784.7932	0.1835	0.0000	789.3794
Total	0.6169	5.2590	4.2580	9.1700e-003		0.2691	0.2691		0.2566	0.2566	0.0000	784.7932	784.7932	0.1835	0.0000	789.3794

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3.5 Building Construction - 2020

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	8.0800e-003	0.2413	0.0653	5.7000e-004	0.0115	1.1200e-003	0.0126	3.4100e-003	1.0700e-003	4.4900e-003	0.0000	55.3245	55.3245	3.5200e-003	0.0000	55.4124
Worker	0.0417	0.0337	0.3721	1.0200e-003	0.0767	8.4000e-004	0.0776	0.0208	7.8000e-004	0.0216	0.0000	92.3199	92.3199	2.9100e-003	0.0000	92.3926
Total	0.0498	0.2750	0.4374	1.5900e-003	0.0882	1.9600e-003	0.0901	0.0242	1.8500e-003	0.0261	0.0000	147.6444	147.6444	6.4300e-003	0.0000	147.8050

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0558	0.4745	0.4147	9.1000e-004		0.0234	0.0234		0.0223	0.0223	0.0000	77.8857	77.8857	0.0180	0.0000	78.3348
Total	0.0558	0.4745	0.4147	9.1000e-004		0.0234	0.0234		0.0223	0.0223	0.0000	77.8857	77.8857	0.0180	0.0000	78.3348

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3.5 Building Construction - 2021

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	6.9000e-004	0.0218	5.9100e-003	6.0000e-005	1.3900e-003	4.0000e-005	1.4400e-003	4.0000e-004	4.0000e-005	4.4000e-004	0.0000	5.4476	5.4476	3.3000e-004	0.0000	5.4559
Worker	3.8600e-003	3.0000e-003	0.0339	1.0000e-004	9.8300e-003	8.0000e-005	9.9100e-003	2.6100e-003	7.0000e-005	2.6900e-003	0.0000	8.8706	8.8706	2.6000e-004	0.0000	8.8771
Total	4.5500e-003	0.0248	0.0398	1.6000e-004	0.0112	1.2000e-004	0.0114	3.0100e-003	1.1000e-004	3.1300e-003	0.0000	14.3182	14.3182	5.9000e-004	0.0000	14.3330

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	0.0558	0.4745	0.4147	9.1000e-004		0.0234	0.0234		0.0223	0.0223	0.0000	77.8856	77.8856	0.0180	0.0000	78.3347
Total	0.0558	0.4745	0.4147	9.1000e-004		0.0234	0.0234		0.0223	0.0223	0.0000	77.8856	77.8856	0.0180	0.0000	78.3347

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0218	5.9100e-003	6.0000e-005	1.1400e-003	4.0000e-005	1.1800e-003	3.4000e-004	4.0000e-005	3.8000e-004	0.0000	5.4476	5.4476	3.3000e-004	0.0000	5.4559
Worker	3.8600e-003	3.0000e-003	0.0339	1.0000e-004	7.6100e-003	8.0000e-005	7.7000e-003	2.0700e-003	7.0000e-005	2.1400e-003	0.0000	8.8706	8.8706	2.6000e-004	0.0000	8.8771
Total	4.5500e-003	0.0248	0.0398	1.6000e-004	8.7500e-003	1.2000e-004	8.8800e-003	2.4100e-003	1.1000e-004	2.5200e-003	0.0000	14.3182	14.3182	5.9000e-004	0.0000	14.3330

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2023					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	0.2050	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692

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3.6 Architectural Coating - 2021

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	7.2000e-004	5.6000e-004	6.3500e-003	2.0000e-005	1.8400e-003	2.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.6614	1.6614	5.0000e-005	0.0000	1.6626
Total	7.2000e-004	5.6000e-004	6.3500e-003	2.0000e-005	1.8400e-003	2.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.6614	1.6614	5.0000e-005	0.0000	1.6626

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	0.2023					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692
Total	0.2050	0.0183	0.0218	4.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	3.0639	3.0639	2.1000e-004	0.0000	3.0692

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3.6 Architectural Coating - 2021

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	7.2000e-004	5.6000e-004	6.3500e-003	2.0000e-005	1.4300e-003	2.0000e-005	1.4400e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.6614	1.6614	5.0000e-005	0.0000	1.6626
Total	7.2000e-004	5.6000e-004	6.3500e-003	2.0000e-005	1.4300e-003	2.0000e-005	1.4400e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.6614	1.6614	5.0000e-005	0.0000	1.6626

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1209	0.6247	1.6691	5.7500e-003	0.4622	4.9200e-003	0.4671	0.1239	4.5900e-003	0.1285	0.0000	530.8842	530.8842	0.0284	0.0000	531.5943
Unmitigated	0.1209	0.6247	1.6691	5.7500e-003	0.4622	4.9200e-003	0.4671	0.1239	4.5900e-003	0.1285	0.0000	530.8842	530.8842	0.0284	0.0000	531.5943

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	342.79	342.79	342.79	1,171,366	1,171,366
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	21.47	21.47	21.47	46,435	46,435
Total	364.26	364.26	364.26	1,217,801	1,217,801

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Enclosed Parking with Elevator	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Regional Shopping Center	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	404.4528	404.4528	7.0500e-003	1.4600e-003	405.0635
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	419.8046	419.8046	7.3200e-003	1.5100e-003	420.4386
NaturalGas Mitigated	3.3600e-003	0.0287	0.0123	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.2445	33.2445	6.4000e-004	6.1000e-004	33.4420
NaturalGas Unmitigated	3.5100e-003	0.0300	0.0128	1.9000e-004		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	34.7353	34.7353	6.7000e-004	6.4000e-004	34.9418

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse High Rise	647713	3.4900e-003	0.0299	0.0127	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003	0.0000	34.5644	34.5644	6.6000e-004	6.3000e-004	34.7698
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3202.92	2.0000e-005	1.6000e-004	1.3000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1709	0.1709	0.0000	0.0000	0.1719
Total		3.5100e-003	0.0300	0.0128	1.9000e-004		2.4200e-003	2.4200e-003		2.4200e-003	2.4200e-003	0.0000	34.7353	34.7353	6.6000e-004	6.3000e-004	34.9418

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse High Rise	619999	3.3400e-003	0.0286	0.0122	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.0855	33.0855	6.3000e-004	6.1000e-004	33.2821
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2978.32	2.0000e-005	1.5000e-004	1.2000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1589	0.1589	0.0000	0.0000	0.1599
Total		3.3600e-003	0.0287	0.0123	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.2445	33.2445	6.3000e-004	6.1000e-004	33.4420

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	254484	192.0951	3.3500e-003	6.9000e-004	192.3852
Enclosed Parking with Elevator	269560	203.4750	3.5500e-003	7.3000e-004	203.7823
Parking Lot	5740	4.3328	8.0000e-005	2.0000e-005	4.3393
Regional Shopping Center	26365.5	19.9018	3.5000e-004	7.0000e-005	19.9318
Total		419.8047	7.3300e-003	1.5100e-003	420.4386

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	252961	190.9457	3.3300e-003	6.9000e-004	191.2340
Enclosed Parking with Elevator	251528	189.8637	3.3100e-003	6.8000e-004	190.1504
Parking Lot	5740	4.3328	8.0000e-005	2.0000e-005	4.3393
Regional Shopping Center	25582.3	19.3106	3.4000e-004	7.0000e-005	19.3398
Total		404.4528	7.0600e-003	1.4600e-003	405.0635

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2645	0.0181	0.6165	1.0000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	13.7491	13.7491	1.2200e-003	2.3000e-004	13.8492
Unmitigated	0.4564	0.0224	0.9869	9.9000e-004		0.0597	0.0597		0.0597	0.0597	6.2669	13.0407	19.3076	0.0197	4.3000e-004	19.9259

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	0.0202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2243					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1933	0.0153	0.3751	9.6000e-004		0.0563	0.0563		0.0563	0.0563	6.2669	12.0429	18.3098	0.0187	4.3000e-004	18.9038
Landscaping	0.0187	7.0600e-003	0.6118	3.0000e-005		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	0.9978	0.9978	9.7000e-004	0.0000	1.0222
Total	0.4564	0.0224	0.9869	9.9000e-004		0.0597	0.0597		0.0597	0.0597	6.2669	13.0407	19.3076	0.0197	4.3000e-004	19.9259

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2243					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.2900e-003	0.0110	4.6900e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	12.7513	12.7513	2.4000e-004	2.3000e-004	12.8271
Landscaping	0.0187	7.0600e-003	0.6118	3.0000e-005		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	0.9978	0.9978	9.7000e-004	0.0000	1.0222
Total	0.2645	0.0181	0.6165	1.0000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003	0.0000	13.7491	13.7491	1.2100e-003	2.3000e-004	13.8492

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	61.5339	0.1310	3.2900e-003	65.7886
Unmitigated	61.5339	0.1310	3.2900e-003	65.7886

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	3.84409 / 2.42345	59.3260	0.1263	3.1700e-003	63.4266
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.144441 / 0.0885286	2.2079	4.7400e-003	1.2000e-004	2.3620
Total		61.5339	0.1310	3.2900e-003	65.7886

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	3.84409 / 2.42345	59.3260	0.1263	3.1700e-003	63.4266
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.144441 / 0.0885286	2.2079	4.7400e-003	1.2000e-004	2.3620
Total		61.5339	0.1310	3.2900e-003	65.7886

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.9627	0.1751	0.0000	7.3399
Unmitigated	5.9253	0.3502	0.0000	14.6797

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	27.14	5.5092	0.3256	0.0000	13.6488
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.05	0.4161	0.0246	0.0000	1.0310
Total		5.9253	0.3502	0.0000	14.6797

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	13.57	2.7546	0.1628	0.0000	6.8244
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.025	0.2081	0.0123	0.0000	0.5155
Total		2.9627	0.1751	0.0000	7.3398

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

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Equipment Type	Number
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11.0 Vegetation
