

APPENDIX B

CALEEMOD MODEL DAILY EMISSIONS PRINTOUTS

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Summer

19-0180 Tentative Tract Map No. 20152
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.55	1000sqft	0.40	17,554.00	0
Single Family Housing	5.00	Dwelling Unit	2.96	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - 5 residential dwellings plus 17,554 SF of on-site road on 3.36 ac

Construction Phase - No demo and minor site prep only. Construction to start ~3/21 and end ~6/22

Grading - 4,750 CY of import

Vehicle Trips - Trip generation rate from 10th Ed. ITE Trip Generation Manual for Single family detached housing (210): 9.44 trips/du weekdays, 9.54 trips/du Sat, and 8.55 trips/du Sun.

Woodstoves - No woodstoves or woodburning fireplaces.

Sequestration - 12 proposed street trees

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Off-road Equipment - Site has been cleared previously, only minor site prep needed for removal of vegetation

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	230.00	250.00
tblConstructionPhase	NumDays	18.00	28.00
tblConstructionPhase	NumDays	18.00	30.00
tblFireplaces	NumberGas	4.25	4.50
tblFireplaces	NumberWood	0.25	0.00
tblGrading	MaterialImported	0.00	4,750.00
tblLandUse	LandUseSquareFeet	17,550.00	17,554.00
tblLandUse	LotAcreage	1.62	2.96
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblSequestration	NumberOfNewTrees	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	0.25	0.00
tblWoodstoves	NumberNoncatalytic	0.25	0.00

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.5587	31.4838	17.5162	0.0541	12.2454	1.2897	13.5351	6.6738	1.1866	7.8604	0.0000	5,460.035 3	5,460.035 3	1.0635	0.0000	5,486.621 5
2022	2.8650	25.4941	29.7106	0.0497	0.3434	1.2991	1.6425	0.0915	1.2138	1.3053	0.0000	4,749.990 2	4,749.990 2	1.1924	0.0000	4,779.801 0
Maximum	2.8650	31.4838	29.7106	0.0541	12.2454	1.2991	13.5351	6.6738	1.2138	7.8604	0.0000	5,460.035 3	5,460.035 3	1.1924	0.0000	5,486.621 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.5587	31.4838	17.5162	0.0541	4.8984	1.2897	6.1882	2.6353	1.1866	3.8219	0.0000	5,460.035 3	5,460.035 3	1.0635	0.0000	5,486.621 5
2022	2.8650	25.4941	29.7106	0.0497	0.3434	1.2991	1.6425	0.0915	1.2138	1.3053	0.0000	4,749.990 2	4,749.990 2	1.1924	0.0000	4,779.801 0
Maximum	2.8650	31.4838	29.7106	0.0541	4.8984	1.2991	6.1882	2.6353	1.2138	3.8219	0.0000	5,460.035 3	5,460.035 3	1.1924	0.0000	5,486.621 5

	ROG	NOx	CO	SO2	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	58.36	0.00	48.41	59.69	0.00	44.06	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	0.2226	0.0794	0.4465	5.0000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	96.0407	96.0407	2.5500e-003	1.7500e-003	96.6252
Energy	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
Mobile	0.1005	0.6468	1.1929	4.7100e-003	0.3473	3.1100e-003	0.3504	0.0929	2.9200e-003	0.0959		480.0890	480.0890	0.0232		480.6700
Total	0.3275	0.7649	1.6559	5.4600e-003	0.3473	0.0146	0.3619	0.0929	0.0144	0.1073	0.0000	625.4385	625.4385	0.0267	2.6500e-003	626.8971

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	0.2226	0.0794	0.4465	5.0000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	96.0407	96.0407	2.5500e-003	1.7500e-003	96.6252
Energy	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
Mobile	0.1005	0.6468	1.1929	4.7100e-003	0.3473	3.1100e-003	0.3504	0.0929	2.9200e-003	0.0959		480.0890	480.0890	0.0232		480.6700
Total	0.3275	0.7649	1.6559	5.4600e-003	0.3473	0.0146	0.3619	0.0929	0.0144	0.1073	0.0000	625.4385	625.4385	0.0267	2.6500e-003	626.8971

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/5/2021	5	5	
2	Grading	Grading	3/6/2021	3/29/2021	5	16	
3	Building Construction	Building Construction	3/30/2021	3/14/2022	5	250	
4	Paving	Paving	3/14/2022	4/20/2022	5	28	
5	Architectural Coating	Architectural Coating	4/21/2022	6/1/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.4

Residential Indoor: 18,225; Residential Outdoor: 6,075; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,053 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	470.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	9.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.4673	25.7342	12.5960	0.0233		1.2885	1.2885		1.1854	1.1854		2,256.5045	2,256.5045	0.7298		2,274.7495
Total	2.4673	25.7342	12.5960	0.0233	12.0442	1.2885	13.3326	6.6205	1.1854	7.8058		2,256.5045	2,256.5045	0.7298		2,274.7495

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3.2 Site Preparation - 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	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	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746

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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	2.4673	25.7342	12.5960	0.0233		1.2885	1.2885		1.1854	1.1854	0.0000	2,256.5045	2,256.5045	0.7298		2,274.7495
Total	2.4673	25.7342	12.5960	0.0233	4.6972	1.2885	5.9857	2.5820	1.1854	3.7674	0.0000	2,256.5045	2,256.5045	0.7298		2,274.7495

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3.2 Site Preparation - 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	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	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746
Total	0.0915	0.0565	0.7452	1.9800e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		196.9345	196.9345	5.6000e-003		197.0746

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.5523	1.1599	7.7123	3.3675	1.0671	4.4346		2,871.9285	2,871.9285	0.9288		2,895.1495

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3.3 Grading - 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	lb/day										lb/day					
Hauling	0.1746	6.7000	1.0377	0.0228	0.5141	0.0190	0.5330	0.1409	0.0181	0.1591		2,423.9947	2,423.9947	0.1299		2,427.2431
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	0.0762	0.0471	0.6210	1.6500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		164.1121	164.1121	4.6700e-003		164.2289
Total	0.2508	6.7472	1.6587	0.0245	0.6817	0.0200	0.7018	0.1854	0.0191	0.2045		2,588.1068	2,588.1068	0.1346		2,591.4720

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	2.5554	1.1599	3.7153	1.3133	1.0671	2.3804	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

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3.3 Grading - 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	lb/day										lb/day					
Hauling	0.1746	6.7000	1.0377	0.0228	0.5141	0.0190	0.5330	0.1409	0.0181	0.1591		2,423.9947	2,423.9947	0.1299		2,427.2431
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	0.0762	0.0471	0.6210	1.6500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		164.1121	164.1121	4.6700e-003		164.2289
Total	0.2508	6.7472	1.6587	0.0245	0.6817	0.0200	0.7018	0.1854	0.0191	0.2045		2,588.1068	2,588.1068	0.1346		2,591.4720

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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3.4 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	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	7.7600e-003	0.2893	0.0544	8.1000e-004	0.0192	5.0000e-004	0.0197	5.5300e-003	4.7000e-004	6.0100e-003		85.3768	85.3768	5.4000e-003		85.5117
Worker	0.0457	0.0283	0.3726	9.9000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		98.4673	98.4673	2.8000e-003		98.5373
Total	0.0535	0.3176	0.4270	1.8000e-003	0.1198	1.1400e-003	0.1210	0.0322	1.0600e-003	0.0333		183.8440	183.8440	8.2000e-003		184.0490

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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3.4 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	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	7.7600e-003	0.2893	0.0544	8.1000e-004	0.0192	5.0000e-004	0.0197	5.5300e-003	4.7000e-004	6.0100e-003		85.3768	85.3768	5.4000e-003		85.5117
Worker	0.0457	0.0283	0.3726	9.9000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		98.4673	98.4673	2.8000e-003		98.5373
Total	0.0535	0.3176	0.4270	1.8000e-003	0.1198	1.1400e-003	0.1210	0.0322	1.0600e-003	0.0333		183.8440	183.8440	8.2000e-003		184.0490

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

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3.4 Building Construction - 2022

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	7.2300e-003	0.2744	0.0503	8.0000e-004	0.0192	4.2000e-004	0.0196	5.5300e-003	4.0000e-004	5.9300e-003		84.6923	84.6923	5.2100e-003		84.8225
Worker	0.0427	0.0254	0.3423	9.5000e-004	0.1006	6.2000e-004	0.1012	0.0267	5.8000e-004	0.0273		94.9142	94.9142	2.5100e-003		94.9771
Total	0.0499	0.2998	0.3926	1.7500e-003	0.1198	1.0400e-003	0.1209	0.0322	9.8000e-004	0.0332		179.6065	179.6065	7.7200e-003		179.7996

Mitigated Construction On-Site

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

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3.4 Building Construction - 2022

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	7.2300e-003	0.2744	0.0503	8.0000e-004	0.0192	4.2000e-004	0.0196	5.5300e-003	4.0000e-004	5.9300e-003		84.6923	84.6923	5.2100e-003		84.8225
Worker	0.0427	0.0254	0.3423	9.5000e-004	0.1006	6.2000e-004	0.1012	0.0267	5.8000e-004	0.0273		94.9142	94.9142	2.5100e-003		94.9771
Total	0.0499	0.2998	0.3926	1.7500e-003	0.1198	1.0400e-003	0.1209	0.0322	9.8000e-004	0.0332		179.6065	179.6065	7.7200e-003		179.7996

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.0374					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0139	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

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3.5 Paving - 2022

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	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601
Total	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.0374					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0139	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Summer

3.5 Paving - 2022

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	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601
Total	0.0949	0.0565	0.7606	2.1200e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		210.9205	210.9205	5.5900e-003		211.0601

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0399					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	2.2444	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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3.6 Architectural Coating - 2022

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	9.4900e-003	5.6500e-003	0.0761	2.1000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		21.0921	21.0921	5.6000e-004		21.1060
Total	9.4900e-003	5.6500e-003	0.0761	2.1000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		21.0921	21.0921	5.6000e-004		21.1060

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	2.0399					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	2.2444	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Summer

3.6 Architectural Coating - 2022

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	9.4900e-003	5.6500e-003	0.0761	2.1000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		21.0921	21.0921	5.6000e-004		21.1060
Total	9.4900e-003	5.6500e-003	0.0761	2.1000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		21.0921	21.0921	5.6000e-004		21.1060

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

19-0180 Tentative Tract Map No. 20152 - San Bernardino-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	0.1005	0.6468	1.1929	4.7100e-003	0.3473	3.1100e-003	0.3504	0.0929	2.9200e-003	0.0959		480.0890	480.0890	0.0232		480.6700
Unmitigated	0.1005	0.6468	1.1929	4.7100e-003	0.3473	3.1100e-003	0.3504	0.0929	2.9200e-003	0.0959		480.0890	480.0890	0.0232		480.6700

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	47.20	47.70	42.75	159,265	159,265
Total	47.20	47.70	42.75	159,265	159,265

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Single Family Housing	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
NaturalGas Unmitigated	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Single Family Housing	419.125	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
Total		4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019

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					
Other Asphalt Surfaces	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
Single Family Housing	0.419125	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
Total		4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019

6.0 Area Detail

6.1 Mitigation Measures Area

19-0180 Tentative Tract Map No. 20152 - San Bernardino-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	0.2226	0.0794	0.4465	5.0000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	96.0407	96.0407	2.5500e-003	1.7500e-003	96.6252
Unmitigated	0.2226	0.0794	0.4465	5.0000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	96.0407	96.0407	2.5500e-003	1.7500e-003	96.6252

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	0.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1844					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.7400e-003	0.0747	0.0318	4.8000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	95.2941	95.2941	1.8300e-003	1.7500e-003	95.8604
Landscaping	0.0126	4.7800e-003	0.4148	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003		0.7466	0.7466	7.3000e-004		0.7648
Total	0.2226	0.0794	0.4465	5.0000e-004		8.3300e-003	8.3300e-003		8.3300e-003	8.3300e-003	0.0000	96.0407	96.0407	2.5600e-003	1.7500e-003	96.6252

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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	0.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1844					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.7400e-003	0.0747	0.0318	4.8000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	95.2941	95.2941	1.8300e-003	1.7500e-003	95.8604
Landscaping	0.0126	4.7800e-003	0.4148	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003		0.7466	0.7466	7.3000e-004		0.7648
Total	0.2226	0.0794	0.4465	5.0000e-004		8.3300e-003	8.3300e-003		8.3300e-003	8.3300e-003	0.0000	96.0407	96.0407	2.5600e-003	1.7500e-003	96.6252

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

19-0180 Tentative Tract Map No. 20152
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	17.55	1000sqft	0.40	17,554.00	0
Single Family Housing	5.00	Dwelling Unit	2.96	9,000.00	14

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - 5 residential dwellings plus 17,554 SF of on-site road on 3.36 ac

Construction Phase - No demo and minor site prep only. Construction to start ~3/21 and end ~6/22

Grading - 4,750 CY of import

Vehicle Trips - Trip generation rate from 10th Ed. ITE Trip Generation Manual for Single family detached housing (210): 9.44 trips/du weekdays, 9.54 trips/du Sat, and 8.55 trips/du Sun.

Woodstoves - No woodstoves or woodburning fireplaces.

Sequestration - 12 proposed street trees

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Off-road Equipment - Site has been cleared previously, only minor site prep needed for removal of vegetation

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	8.00	16.00
tblConstructionPhase	NumDays	230.00	250.00
tblConstructionPhase	NumDays	18.00	28.00
tblConstructionPhase	NumDays	18.00	30.00
tblFireplaces	NumberGas	4.25	4.50
tblFireplaces	NumberWood	0.25	0.00
tblGrading	MaterialImported	0.00	4,750.00
tblLandUse	LandUseSquareFeet	17,550.00	17,554.00
tblLandUse	LotAcreage	1.62	2.96
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblSequestration	NumberOfNewTrees	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	0.25	0.00
tblWoodstoves	NumberNoncatalytic	0.25	0.00

2.0 Emissions Summary

19-0180 Tentative Tract Map No. 20152 - San Bernardino-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					
2021	2.5589	31.5115	17.5520	0.0533	12.2454	1.2897	13.5351	6.6738	1.1866	7.8604	0.0000	5,379.6216	5,379.6216	1.0741	0.0000	5,406.4728
2022	2.8661	25.4950	29.5197	0.0494	0.3434	1.2991	1.6425	0.0915	1.2138	1.3053	0.0000	4,715.2225	4,715.2225	1.1920	0.0000	4,745.0228
Maximum	2.8661	31.5115	29.5197	0.0533	12.2454	1.2991	13.5351	6.6738	1.2138	7.8604	0.0000	5,379.6216	5,379.6216	1.1920	0.0000	5,406.4728

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.5589	31.5115	17.5520	0.0533	4.8984	1.2897	6.1882	2.6353	1.1866	3.8219	0.0000	5,379.6216	5,379.6216	1.0741	0.0000	5,406.4728
2022	2.8661	25.4950	29.5197	0.0494	0.3434	1.2991	1.6425	0.0915	1.2138	1.3053	0.0000	4,715.2225	4,715.2225	1.1920	0.0000	4,745.0228
Maximum	2.8661	31.5115	29.5197	0.0533	4.8984	1.2991	6.1882	2.6353	1.2138	3.8219	0.0000	5,379.6216	5,379.6216	1.1920	0.0000	5,406.4728

	ROG	NOx	CO	SO2	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	58.36	0.00	48.41	59.69	0.00	44.06	0.00	0.00	0.00	0.00	0.00	0.00

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2226	0.0794	0.4465	5.0000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	96.0407	96.0407	2.5500e-003	1.7500e-003	96.6252
Energy	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
Mobile	0.0878	0.6478	1.0447	4.3400e-003	0.3473	3.1400e-003	0.3505	0.0929	2.9400e-003	0.0959		443.1019	443.1019	0.0236		443.6930
Total	0.3149	0.7659	1.5077	5.0900e-003	0.3473	0.0146	0.3619	0.0929	0.0144	0.1073	0.0000	588.4515	588.4515	0.0271	2.6500e-003	589.9200

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	0.2226	0.0794	0.4465	5.0000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	96.0407	96.0407	2.5500e-003	1.7500e-003	96.6252
Energy	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
Mobile	0.0878	0.6478	1.0447	4.3400e-003	0.3473	3.1400e-003	0.3505	0.0929	2.9400e-003	0.0959		443.1019	443.1019	0.0236		443.6930
Total	0.3149	0.7659	1.5077	5.0900e-003	0.3473	0.0146	0.3619	0.0929	0.0144	0.1073	0.0000	588.4515	588.4515	0.0271	2.6500e-003	589.9200

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/5/2021	5	5	
2	Grading	Grading	3/6/2021	3/29/2021	5	16	
3	Building Construction	Building Construction	3/30/2021	3/14/2022	5	250	
4	Paving	Paving	3/14/2022	4/20/2022	5	28	
5	Architectural Coating	Architectural Coating	4/21/2022	6/1/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.4

Residential Indoor: 18,225; Residential Outdoor: 6,075; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,053 (Architectural Coating – sqft)

OffRoad Equipment

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	470.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	9.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.4673	25.7342	12.5960	0.0233		1.2885	1.2885		1.1854	1.1854		2,256.5045	2,256.5045	0.7298		2,274.7495
Total	2.4673	25.7342	12.5960	0.0233	12.0442	1.2885	13.3326	6.6205	1.1854	7.8058		2,256.5045	2,256.5045	0.7298		2,274.7495

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925

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					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	2.4673	25.7342	12.5960	0.0233		1.2885	1.2885		1.1854	1.1854	0.0000	2,256.5045	2,256.5045	0.7298		2,274.7495
Total	2.4673	25.7342	12.5960	0.0233	4.6972	1.2885	5.9857	2.5820	1.1854	3.7674	0.0000	2,256.5045	2,256.5045	0.7298		2,274.7495

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.2 Site Preparation - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925
Total	0.0917	0.0595	0.6112	1.7700e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0545		176.6696	176.6696	4.9200e-003		176.7925

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.5523	1.1599	7.7123	3.3675	1.0671	4.4346		2,871.9285	2,871.9285	0.9288		2,895.1495

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.3 Grading - 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	lb/day										lb/day					
Hauling	0.1824	6.7252	1.1852	0.0222	0.5141	0.0192	0.5333	0.1409	0.0184	0.1593		2,360.4685	2,360.4685	0.1411		2,363.9962
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	0.0764	0.0496	0.5093	1.4800e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.2247	147.2247	4.1000e-003		147.3271
Total	0.2588	6.7748	1.6945	0.0237	0.6817	0.0203	0.7020	0.1854	0.0194	0.2048		2,507.6931	2,507.6931	0.1452		2,511.3233

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	2.5554	1.1599	3.7153	1.3133	1.0671	2.3804	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.3 Grading - 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	lb/day										lb/day					
Hauling	0.1824	6.7252	1.1852	0.0222	0.5141	0.0192	0.5333	0.1409	0.0184	0.1593		2,360.4685	2,360.4685	0.1411		2,363.9962
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	0.0764	0.0496	0.5093	1.4800e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.2247	147.2247	4.1000e-003		147.3271
Total	0.2588	6.7748	1.6945	0.0237	0.6817	0.0203	0.7020	0.1854	0.0194	0.2048		2,507.6931	2,507.6931	0.1452		2,511.3233

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.4 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	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	8.2300e-003	0.2862	0.0637	7.8000e-004	0.0192	5.1000e-004	0.0197	5.5300e-003	4.9000e-004	6.0200e-003		82.0605	82.0605	5.9800e-003		82.2101
Worker	0.0458	0.0297	0.3056	8.9000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		88.3348	88.3348	2.4600e-003		88.3963
Total	0.0541	0.3160	0.3693	1.6700e-003	0.1198	1.1500e-003	0.1210	0.0322	1.0800e-003	0.0333		170.3953	170.3953	8.4400e-003		170.6063

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.4 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	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	8.2300e-003	0.2862	0.0637	7.8000e-004	0.0192	5.1000e-004	0.0197	5.5300e-003	4.9000e-004	6.0200e-003		82.0605	82.0605	5.9800e-003		82.2101
Worker	0.0458	0.0297	0.3056	8.9000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		88.3348	88.3348	2.4600e-003		88.3963
Total	0.0541	0.3160	0.3693	1.6700e-003	0.1198	1.1500e-003	0.1210	0.0322	1.0800e-003	0.0333		170.3953	170.3953	8.4400e-003		170.6063

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

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3.4 Building Construction - 2022

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	7.6800e-003	0.2712	0.0591	7.7000e-004	0.0192	4.3000e-004	0.0196	5.5300e-003	4.1000e-004	5.9400e-003		81.3769	81.3769	5.7800e-003		81.5214
Worker	0.0429	0.0267	0.2803	8.5000e-004	0.1006	6.2000e-004	0.1012	0.0267	5.8000e-004	0.0273		85.1531	85.1531	2.2100e-003		85.2083
Total	0.0506	0.2979	0.3394	1.6200e-003	0.1198	1.0500e-003	0.1209	0.0322	9.9000e-004	0.0332		166.5300	166.5300	7.9900e-003		166.7297

Mitigated Construction On-Site

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

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3.4 Building Construction - 2022

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	7.6800e-003	0.2712	0.0591	7.7000e-004	0.0192	4.3000e-004	0.0196	5.5300e-003	4.1000e-004	5.9400e-003		81.3769	81.3769	5.7800e-003		81.5214
Worker	0.0429	0.0267	0.2803	8.5000e-004	0.1006	6.2000e-004	0.1012	0.0267	5.8000e-004	0.0273		85.1531	85.1531	2.2100e-003		85.2083
Total	0.0506	0.2979	0.3394	1.6200e-003	0.1198	1.0500e-003	0.1209	0.0322	9.9000e-004	0.0332		166.5300	166.5300	7.9900e-003		166.7297

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.0374					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0139	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

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3.5 Paving - 2022

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	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518
Total	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.0374					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0139	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518
Total	0.0954	0.0594	0.6228	1.9000e-003	0.2236	1.3900e-003	0.2249	0.0593	1.2800e-003	0.0606		189.2292	189.2292	4.9000e-003		189.3518

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0399					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	2.2444	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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3.6 Architectural Coating - 2022

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	9.5400e-003	5.9400e-003	0.0623	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		18.9229	18.9229	4.9000e-004		18.9352
Total	9.5400e-003	5.9400e-003	0.0623	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		18.9229	18.9229	4.9000e-004		18.9352

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	2.0399					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	2.2444	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

3.6 Architectural Coating - 2022

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	9.5400e-003	5.9400e-003	0.0623	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		18.9229	18.9229	4.9000e-004		18.9352
Total	9.5400e-003	5.9400e-003	0.0623	1.9000e-004	0.0224	1.4000e-004	0.0225	5.9300e-003	1.3000e-004	6.0600e-003		18.9229	18.9229	4.9000e-004		18.9352

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

19-0180 Tentative Tract Map No. 20152 - San Bernardino-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	0.0878	0.6478	1.0447	4.3400e-003	0.3473	3.1400e-003	0.3505	0.0929	2.9400e-003	0.0959		443.1019	443.1019	0.0236		443.6930
Unmitigated	0.0878	0.6478	1.0447	4.3400e-003	0.3473	3.1400e-003	0.3505	0.0929	2.9400e-003	0.0959		443.1019	443.1019	0.0236		443.6930

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	47.20	47.70	42.75	159,265	159,265
Total	47.20	47.70	42.75	159,265	159,265

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Single Family Housing	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
NaturalGas Unmitigated	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Single Family Housing	419.125	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
Total		4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Single Family Housing	0.419125	4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019
Total		4.5200e-003	0.0386	0.0164	2.5000e-004		3.1200e-003	3.1200e-003		3.1200e-003	3.1200e-003		49.3089	49.3089	9.5000e-004	9.0000e-004	49.6019

6.0 Area Detail

6.1 Mitigation Measures Area

19-0180 Tentative Tract Map No. 20152 - San Bernardino-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	0.2226	0.0794	0.4465	5.0000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	96.0407	96.0407	2.5500e-003	1.7500e-003	96.6252
Unmitigated	0.2226	0.0794	0.4465	5.0000e-004		8.3200e-003	8.3200e-003		8.3200e-003	8.3200e-003	0.0000	96.0407	96.0407	2.5500e-003	1.7500e-003	96.6252

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	0.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1844					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.7400e-003	0.0747	0.0318	4.8000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	95.2941	95.2941	1.8300e-003	1.7500e-003	95.8604
Landscaping	0.0126	4.7800e-003	0.4148	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003		0.7466	0.7466	7.3000e-004		0.7648
Total	0.2226	0.0794	0.4465	5.0000e-004		8.3300e-003	8.3300e-003		8.3300e-003	8.3300e-003	0.0000	96.0407	96.0407	2.5600e-003	1.7500e-003	96.6252

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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	0.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1844					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	8.7400e-003	0.0747	0.0318	4.8000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	95.2941	95.2941	1.8300e-003	1.7500e-003	95.8604
Landscaping	0.0126	4.7800e-003	0.4148	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003		0.7466	0.7466	7.3000e-004		0.7648
Total	0.2226	0.0794	0.4465	5.0000e-004		8.3300e-003	8.3300e-003		8.3300e-003	8.3300e-003	0.0000	96.0407	96.0407	2.5600e-003	1.7500e-003	96.6252

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

19-0180 Tentative Tract Map No. 20152 - San Bernardino-South Coast County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
