

Appendix B Air Quality and GHG Emissions Data

Appendices

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1. Criteria Air Pollutant and GHG Emissions Worksheets

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Regional Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2020.4.0

P1 Demolition			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
2026 Summer								
Onsite	Fugitive Dust						1.3503	0.2044
	Off-Road		2.0926	19.1966	19.4184	0.0388	0.8528	0.792
	Total		2.0926	19.1966	19.4184	0.0388	2.203	0.9964
Offsite	Hauling		3.45E-02	1.5888	0.4919	7.76E-03	0.2565	8.21E-02
	Vendor		4.41E-03	0.1397	0.0562	6.80E-04	0.025	7.96E-03
	Worker		0.0474	0.0253	0.4575	1.36E-03	0.1553	0.0419
	Total		0.0864	1.7537	1.0057	9.80E-03	0.4367	0.132
TOTAL			2.18	20.95	20.42	0.05	2.64	1.13
2026 Winter								
Onsite	Fugitive Dust						1.3503	0.2044
	Off-Road		2.0926	19.1966	19.4184	0.0388	0.8528	0.792
	Total		2.0926	19.1966	19.4184	0.0388	2.203	0.9964
Offsite	Hauling		3.19E-02	1.675	0.5007	7.78E-03	0.2565	8.22E-02
	Vendor		4.08E-03	0.1475	0.058	6.80E-04	0.025	7.97E-03
	Worker		0.046	0.0266	0.3778	1.23E-03	0.1553	0.0419
	Total		0.082	1.8491	0.9365	9.69E-03	0.4368	0.132
TOTAL			2.17	21.05	20.35	0.05	2.64	1.04
2026								
Onsite	Fugitive Dust		0.00	0.00	0.00	0.00	1.35	0.20
	Off-Road		2.09	19.20	19.42	0.04	0.85	0.79
	Total		2.09	19.20	19.42	0.04	2.20	1.00
Offsite	Hauling		0.03	1.68	0.50	0.01	0.26	0.08
	Vendor		0.00	0.15	0.06	0.00	0.03	0.01
	Worker		0.05	0.03	0.46	0.00	0.16	0.04
	Total		0.09	1.85	1.01	0.01	0.44	0.13
TOTAL			2.18	21.05	20.42	0.05	2.64	1.13

P1 Site Preparation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
2026 Summer								
Onsite	Fugitive Dust						8.4034	4.3188
	Off-Road		2.4727	25.2339	17.9118	0.0381	1.0868	0.9999
	Total		2.4727	25.2339	17.9118	0.0381	9.4902	5.3187
Offsite	Hauling		0	0	0	0	0	0
	Vendor		8.82E-03	0.2793	0.1125	1.36E-03	0.05	0.0159
	Worker		0.0569	0.0304	0.549	1.63E-03	0.1863	0.0503
	Total		0.0658	0.3097	0.6614	2.99E-03	0.2364	0.0662
TOTAL			2.54	25.54	18.57	0.04	9.73	5.38
2026 Winter								
Onsite	Fugitive Dust						8.4034	4.3188
	Off-Road		2.4727	25.2339	17.9118	0.0381	1.0868	0.9999
	Total		2.4727	25.2339	17.9118	0.0381	9.4902	5.3187
Offsite	Hauling		0	0	0	0	0	0

	Vendor	8.16E-03	0.2951	0.116	1.36E-03	0.05	0.0159
	Worker	0.0552	0.0319	0.4534	1.48E-03	0.1863	0.0503
	Total	0.0634	0.3269	0.5694	2.84E-03	0.2364	0.0662
TOTAL		2.54	25.56	18.48	0.04	9.73	5.37
Onsite	2026						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.47	25.23	17.91	0.04	1.09	1.00
	Total	2.47	25.23	17.91	0.04	9.49	5.32
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.30	0.12	0.00	0.05	0.02
	Worker	0.06	0.03	0.55	0.00	0.19	0.05
	Total	0.07	0.33	0.66	0.00	0.24	0.07
TOTAL		2.54	25.56	18.57	0.04	9.73	5.38

P1 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2026 Summer						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	2.9012	27.9429	26.3311	0.0621	5.0654	2.6024
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0176	0.5587	0.2249	2.71E-03	0.1001	0.0319
	Worker	0.0633	0.0337	0.61	1.81E-03	0.207	0.0559
	Total	0.0809	0.5924	0.8349	4.52E-03	0.3071	0.0877
TOTAL		2.98	28.54	27.17	0.07	5.37	2.69
Onsite	2026 Winter						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	2.9012	27.9429	26.3311	0.0621	5.0654	2.6024
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0163	0.5901	0.232	2.72E-03	0.1001	0.0319
	Worker	0.0614	0.0354	0.5037	1.64E-03	0.207	0.0559
	Total	0.0777	0.6255	0.7357	4.36E-03	0.3071	0.0877
TOTAL		2.98	28.57	27.07	0.07	5.37	2.66
Onsite	2026						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	2.90	27.94	26.33	0.06	5.07	2.60
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.59	0.23	0.00	0.10	0.03
	Worker	0.06	0.04	0.61	0.00	0.21	0.06
	Total	0.08	0.63	0.83	0.00	0.31	0.09
TOTAL		2.98	28.57	27.17	0.07	5.37	2.69

P1 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2026 Summer						
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
Offsite							
	Hauling	0	0	0	0	0	0

	Vendor	0.1256	3.9804	1.6025	1.93E-02	0.7129	0.2269
	Worker	0.9267	0.494	8.936	0.0266	3.0328	0.8186
	Total	1.0523	4.4744	10.5386	0.0459	3.7458	1.0455
TOTAL		2.42	16.94	26.62	0.07	4.27	1.54

Onsite	2026 Winter						
Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963	
Total	1.3674	12.4697	16.0847	0.027	0.5276	0.4963	

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1163	4.2045	1.6529	1.94E-02	0.713	0.227
	Worker	0.8992	0.5189	7.3797	0.0241	3.0328	0.8186
	Total	1.0154	4.7233	9.0326	0.0435	3.7459	1.0456
TOTAL		2.38	17.19	25.12	0.07	4.27	1.54

Onsite	2026						
Off-Road	1.37	12.47	16.08	0.03	0.53	0.50	
Total	1.37	12.47	16.08	0.03	0.53	0.50	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.13	4.20	1.65	0.02	0.71	0.23
	Worker	0.93	0.52	8.94	0.03	3.03	0.82
	Total	1.05	4.72	10.54	0.05	3.75	1.05
TOTAL		2.42	17.19	26.62	0.07	4.27	1.54

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2027 Summer						
Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963	
Total	1.3674	12.4697	16.0847	0.027	0.5276	0.4963	
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1237	3.9505	1.584	1.89E-02	0.7127	0.2267
	Worker	0.8682	0.4485	8.4114	0.0258	3.032	0.8178
	Total	0.9919	4.399	9.9954	0.0447	3.7447	1.0445
TOTAL		2.36	16.87	26.08	0.07	4.27	1.54

Onsite	2027 Winter						
Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963	
Total	1.3674	12.4697	16.0847	0.027	0.5276	0.4963	

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1143	4.1732	1.634	1.90E-02	0.7128	0.2268
	Worker	0.8442	0.4709	6.9518	2.34E-02	3.032	0.8178
	Total	0.9585	4.6441	8.5858	0.0424	3.7448	1.0446
TOTAL		2.33	17.11	24.67	0.07	4.27	1.54

Onsite	2027						
Off-Road	1.37	12.47	16.08	0.03	0.53	0.50	
Total	1.37	12.47	16.08	0.03	0.53	0.50	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.12	4.17	1.63	0.02	0.71	0.23
	Worker	0.87	0.47	8.41	0.03	3.03	0.82
	Total	0.99	4.64	10.00	0.04	3.74	1.04
TOTAL		2.36	17.11	26.08	0.07	4.27	1.54

P1 Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2027 Summer					
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	1.6611				0	0
	Total	2.5762	8.5816	14.578	0.0228	0.4185	0.385
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0445	0.023	0.4306	1.32E-03	0.1552	0.0419
	Total	0.0445	0.023	0.4306	1.32E-03	0.1552	0.0419
TOTAL		2.62	8.60	15.01	0.02	0.57	0.43

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2027 Winter					
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	1.6611				0	0
	Total	2.5762	8.5816	14.578	0.0228	0.4185	0.385
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0432	0.0241	0.3559	1.20E-03	0.1552	0.0419
	Total	0.0432	0.0241	0.3559	1.20E-03	0.1552	0.0419
TOTAL		2.62	8.61	14.93	0.02	0.57	0.43

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2027					
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	1.66	0.00	0.00	0.00	0.00	0.00
	Total	2.58	8.58	14.58	0.02	0.42	0.39
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.43	0.00	0.16	0.04
	Total	0.04	0.02	0.43	0.00	0.16	0.04
TOTAL		2.62	8.61	15.01	0.02	0.57	0.43

P1 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2027 Summer					
	Archit. Coating	71.6358				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	Total	71.8066	1.1455	1.8091	2.97E-03	0.0515	0.0515
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.1748	0.0903	1.6938	5.19E-03	0.6105	0.1647
	Total	0.1748	0.0903	1.6938	5.19E-03	0.6105	0.1647
TOTAL		71.98	1.24	3.50	0.01	0.66	0.22

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2027 Winter					
	Archit. Coating	71.6358				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	Total	71.8066	1.1455	1.8091	2.97E-03	0.0515	0.0515
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.17	0.0948	1.3999	4.71E-03	0.6105	0.1647
	Total	0.17	0.0948	1.3999	4.71E-03	0.6105	0.1647
TOTAL		71.98	1.24	3.21	0.01	0.66	0.22

		2027					
Onsite	Archit. Coating	71.64	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	Total	71.81	1.15	1.81	0.00	0.05	0.05
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.17	0.09	1.69	0.01	0.61	0.16
	Total	0.17	0.09	1.69	0.01	0.61	0.16
TOTAL		71.98	1.24	3.50	0.01	0.66	0.22

Phase 1 All Activities Overlap	84.72	102.21	111.30	0.26	23.25	11.39
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P2 Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2030 Summer					
Onsite	Fugitive Dust					1.6974	0.257
	Off-Road	1.3307	8.0078	12.9685	0.0281	0.2148	0.2148
	Total	1.3307	8.0078	12.9685	0.0281	1.9122	0.4718
Offsite	Hauling	0.0421	1.9157	0.6083	8.86E-03	0.3203	0.1021
	Vendor	4.20E-03	0.1364	0.0543	6.30E-04	0.025	7.94E-03
	Worker	0.0317	0.0155	0.3226	1.06E-03	0.1344	0.0362
	Total	0.078	2.0677	0.9851	1.06E-02	0.4797	0.1463
TOTAL		1.41	10.08	13.95	0.04	2.39	0.62

		2030 Winter					
Onsite	Fugitive Dust					1.6974	0.257
	Off-Road	1.3307	8.0078	12.9685	0.0281	0.2148	0.2148
	Total	1.3307	8.0078	12.9685	0.0281	1.9122	0.4718
Offsite	Hauling	0.0388	2.0205	0.6191	8.87E-03	0.3203	0.1022
	Vendor	3.87E-03	0.1442	0.056	6.30E-04	0.025	7.94E-03
	Worker	0.031	0.0163	0.267	9.60E-04	0.1344	0.0362
	Total	0.0737	2.1809	0.942	1.05E-02	0.4797	0.1463
TOTAL		1.40	10.19	13.91	0.04	2.39	0.51

		2030					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	1.70	0.26
	Off-Road	1.33	8.01	12.97	0.03	0.21	0.21
	Total	1.33	8.01	12.97	0.03	1.91	0.47
Offsite	Hauling	0.04	2.02	0.62	0.01	0.32	0.10
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.03	0.02	0.32	0.00	0.13	0.04
	Total	0.08	2.18	0.99	0.01	0.48	0.15
TOTAL		1.41	10.19	13.95	0.04	2.39	0.62

P2 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2030 Summer					
Onsite	Fugitive Dust					2.6788	1.2843
	Off-Road	0.975	4.7401	5.9133	0.0211	0.1567	0.1567
	Total	0.975	4.7401	5.9133	0.0211	2.8355	1.4409
Offsite	Hauling	0	0	0	0	0	0
	Vendor	4.20E-03	0.1364	0.0543	6.30E-04	0.025	7.94E-03

	Worker	0.0195	9.54E-03	0.1985	6.50E-04	0.0827	0.0223
	Total	0.0237	0.146	0.2528	1.28E-03	0.1077	0.0302
TOTAL		1.00	4.89	6.17	0.02	2.94	1.47

Onsite	2030 Winter						
	Fugitive Dust					2.6788	1.2843
	Off-Road	0.975	4.7401	5.9133	0.0211	0.1567	0.1567
	Total	0.975	4.7401	5.9133	0.0211	2.8355	1.4409

Offsite	Hauling	0	0	0	0	0	0
	Vendor	3.87E-03	0.1442	0.056	6.30E-04	0.025	7.94E-03
	Worker	0.0191	0.01	0.1643	5.90E-04	0.0827	0.0223
	Total	0.0229	0.1542	0.2203	1.22E-03	0.1077	0.0302
TOTAL		1.00	4.89	6.13	0.02	2.94	1.46

Onsite	2030						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.68	1.28
	Off-Road	0.98	4.74	5.91	0.02	0.16	0.16
	Total	0.98	4.74	5.91	0.02	2.84	1.44

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.02	0.01	0.20	0.00	0.08	0.02
	Total	0.02	0.15	0.25	0.00	0.11	0.03
TOTAL		1.00	4.89	6.17	0.02	2.94	1.47

P2 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2030 Summer						
	Fugitive Dust					3.0278	1.4641
	Off-Road	1.1771	5.9092	7.9601	0.0252	0.1859	0.1859
	Total	1.1771	5.9092	7.9601	0.0252	3.2137	1.65

Offsite	Hauling	0	0	0	0	0	0
	Vendor	6.30E-03	0.2046	0.0814	9.40E-04	0.0375	1.19E-02
	Worker	0.0244	1.19E-02	0.2481	8.20E-04	0.1034	0.0278
	Total	0.0307	0.2166	0.3295	1.76E-03	0.1409	0.0397
TOTAL		1.21	6.13	8.29	0.03	3.35	1.69

Onsite	2030 Winter						
	Fugitive Dust					3.0278	1.4641
	Off-Road	1.1771	5.9092	7.9601	0.0252	0.1859	0.1859
	Total	1.1771	5.9092	7.9601	0.0252	3.2137	1.65

Offsite	Hauling	0	0	0	0	0	0
	Vendor	5.80E-03	0.2162	0.084	9.40E-04	0.0375	1.19E-02
	Worker	0.0238	0.0125	0.2054	7.40E-04	0.1034	0.0278
	Total	0.0296	0.2287	0.2894	1.68E-03	0.1409	0.0397
TOTAL		1.21	6.14	8.25	0.03	3.35	1.68

Onsite	2030						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.03	1.46
	Off-Road	1.18	5.91	7.96	0.03	0.19	0.19
	Total	1.18	5.91	7.96	0.03	3.21	1.65

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.22	0.08	0.00	0.04	0.01

	Worker	0.02	0.01	0.25	0.00	0.10	0.03
	Total	0.03	0.23	0.33	0.00	0.14	0.04
TOTAL		1.21	6.14	8.29	0.03	3.35	1.69

P2 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2030 Summer						
	Off-Road	1.0812	7.1882	12.1101	0.0238	0.127	0.127
	Total	1.0812	7.1882	12.1101	0.0238	0.127	0.127

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0231	0.7503	0.2985	3.44E-03	0.1375	0.0437
	Worker	0.1341	0.0656	1.3647	4.49E-03	0.5687	0.1531
	Total	0.1572	0.8159	1.6632	7.93E-03	0.7061	0.1968
TOTAL		1.24	8.00	13.77	0.03	0.83	0.32

Onsite	2030 Winter						
	Off-Road	1.0812	7.1882	12.1101	0.0238	0.127	0.127
	Total	1.0812	7.1882	12.1101	0.0238	0.127	0.127

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0213	0.7928	0.308	3.45E-03	0.1375	0.0437
	Worker	0.1311	0.0688	1.1295	4.07E-03	0.5687	0.1531
	Total	0.1523	0.8616	1.4374	7.52E-03	0.7062	0.1968
TOTAL		1.23	8.05	13.55	0.03	0.83	0.32

Onsite	2030						
	Off-Road	1.08	7.19	12.11	0.02	0.13	0.13
	Total	1.08	7.19	12.11	0.02	0.13	0.13

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.79	0.31	0.00	0.14	0.04
	Worker	0.13	0.07	1.36	0.00	0.57	0.15
	Total	0.16	0.86	1.66	0.01	0.71	0.20
TOTAL		1.24	8.05	13.77	0.03	0.83	0.32

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2031 Summer						
	Off-Road	1.0812	7.1882	12.1101	0.0238	0.127	0.127
	Total	1.0812	7.1882	12.1101	0.0238	0.127	0.127

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.023	0.7497	0.2977	3.39E-03	0.1373	0.0436
	Worker	0.1253	0.061	1.3195	4.41E-03	0.5686	0.153
	Total	0.1483	0.8107	1.6172	7.80E-03	0.7059	0.1965
TOTAL		1.23	8.00	13.73	0.03	0.83	0.32

Onsite	2031 Winter						
	Off-Road	1.0812	7.1882	12.1101	0.0238	0.127	0.127
	Total	1.0812	7.1882	12.1101	0.0238	0.127	0.127

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0211	0.7922	0.3071	3.40E-03	0.1373	0.0436
	Worker	0.1227	0.0639	1.0919	3.99E-03	0.5686	0.153
	Total	0.1438	0.8561	1.399	7.39E-03	0.7059	0.1965
TOTAL		1.23	8.04	13.51	0.03	0.83	0.32

		2031					
Onsite	Off-Road	1.08	7.19	12.11	0.02	0.13	0.13
	Total	1.08	7.19	12.11	0.02	0.13	0.13
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.79	0.31	0.00	0.14	0.04
	Worker	0.13	0.06	1.32	0.00	0.57	0.15
	Total	0.15	0.86	1.62	0.01	0.71	0.20
TOTAL		1.23	8.04	13.73	0.03	0.83	0.32

P2 Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2031 Summer					
Onsite	Off-Road	0.8162	4.3905	9.4567	0.0165	0.1728	0.1728
	Paving	0				0	0
	Total	0.8162	4.3905	9.4567	0.0165	0.1728	0.1728
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0296	0.0144	0.3119	1.04E-03	0.1344	0.0362
	Total	0.0296	0.0144	0.3119	1.04E-03	0.1344	0.0362
TOTAL		0.85	4.40	9.77	0.02	0.31	0.21

Onsite	Off-Road	0.8162	4.3905	9.4567	0.0165	0.1728	0.1728
	Paving	0				0	0
	Total	0.8162	4.3905	9.4567	0.0165	0.1728	0.1728
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.029	0.0151	0.2581	9.40E-04	0.1344	0.0362
	Total	0.029	0.0151	0.2581	9.40E-04	0.1344	0.0362
TOTAL		0.85	4.41	9.71	0.02	0.31	0.21

		2031					
Onsite	Off-Road	0.82	4.39	9.46	0.02	0.17	0.17
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.82	4.39	9.46	0.02	0.17	0.17
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.31	0.00	0.13	0.04
	Total	0.03	0.02	0.31	0.00	0.13	0.04
TOTAL		0.85	4.41	9.77	0.02	0.31	0.21

P2 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2031 Summer					
Onsite	Archit. Coating	121.9816				0	0
	Off-Road	0.1308	0.8563	1.7977	2.97E-03	0.0203	0.0203
	Total	122.1124	0.8563	1.7977	2.97E-03	0.0203	0.0203
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0251	0.0122	0.2639	8.80E-04	0.1137	0.0306
	Total	0.0251	0.0122	0.2639	8.80E-04	0.1137	0.0306
TOTAL		122.14	0.87	2.06	0.00	0.13	0.05

		2031 Winter					
Onsite	Archit. Coating	121.9816				0	0
	Off-Road	0.1308	0.8563	1.7977	2.97E-03	0.0203	0.0203
	Total	122.1124	0.8563	1.7977	2.97E-03	0.0203	0.0203
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0245	0.0128	0.2184	8.00E-04	0.1137	0.0306
	Total	0.0245	0.0128	0.2184	8.00E-04	0.1137	0.0306
TOTAL	122.14	0.87	2.02	0.00	0.13	0.05	
		2031					
Onsite	Archit. Coating	121.98	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.13	0.86	1.80	0.00	0.02	0.02
	Total	122.11	0.86	1.80	0.00	0.02	0.02
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.01	0.26	0.00	0.11	0.03
	Total	0.03	0.01	0.26	0.00	0.11	0.03
TOTAL	122.14	0.87	2.06	0.00	0.13	0.05	
Phase 2 All Activities Overlap		127.84	34.55	54.01	0.14	9.96	4.36

P3 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2038 Summer					
Onsite	Fugitive Dust					2.27E-01	2.45E-02
	Off-Road	4.28E-01	1.57E+00	3.88E+00	1.19E-02	3.43E-02	3.43E-02
	Total	4.28E-01	1.57E+00	3.88E+00	1.19E-02	2.61E-01	5.88E-02
Offsite	Hauling	0	0	0	0	0	0
	Vendor	2.07E-03	6.73E-02	2.70E-02	2.90E-04	1.25E-02	3.95E-03
	Worker	8.95E-03	4.47E-03	1.06E-01	3.80E-04	5.17E-02	1.39E-02
	Total	0.011	7.18E-02	1.33E-01	6.70E-04	6.41E-02	1.78E-02
TOTAL	0.44	1.65	4.01	0.01	0.33	0.08	
		2038 Winter					
Onsite	Fugitive Dust					0.2267	0.0245
	Off-Road	0.4284	1.574	3.8815	0.0119	0.0343	0.0343
	Total	0.4284	1.574	3.8815	0.0119	0.261	0.0588
Offsite	Hauling	0	0	0	0	0	0
	Vendor	1.90E-03	0.0711	0.0278	2.90E-04	0.0125	3.95E-03
	Worker	8.83E-03	4.68E-03	0.088	3.40E-04	0.0517	0.0139
	Total	0.0107	0.0758	0.1158	6.30E-04	0.0641	0.0178
TOTAL	0.44	1.65	4.00	0.01	0.33	0.07	
		2038					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	0.23	0.02
	Off-Road	0.43	1.57	3.88	0.01	0.03	0.03
	Total	0.43	1.57	3.88	0.01	0.26	0.06
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.07	0.03	0.00	0.01	0.00
	Worker	0.01	0.00	0.11	0.00	0.05	0.01

	Total	0.01	0.08	0.13	0.00	0.06	0.02
TOTAL		0.44	1.65	4.01	0.01	0.33	0.08

P3 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2038 Summer					
	Fugitive Dust					2.27E+00	1.10E+00
	Off-Road	7.16E-01	2.87E+00	4.85E+00	1.73E-02	8.74E-02	8.74E-02
	Total	7.16E-01	2.87E+00	4.85E+00	1.73E-02	2.36E+00	1.19E+00
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	4.13E-03	1.35E-01	5.40E-02	5.80E-04	2.50E-02	7.90E-03
	Worker	1.43E-02	7.15E-03	1.70E-01	6.00E-04	8.26E-02	2.22E-02
	Total	1.85E-02	1.42E-01	2.24E-01	1.18E-03	1.08E-01	3.01E-02
TOTAL		0.73	3.01	5.08	0.02	2.47	1.22

Onsite		2038 Winter					
	Fugitive Dust					2.2709	1.0981
	Off-Road	0.7155	2.873	4.8534	0.0173	0.0874	0.0874
	Total	0.7155	2.873	4.8534	0.0173	2.3583	1.1855
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	3.79E-03	0.1423	0.0557	5.90E-04	0.025	7.91E-03
	Worker	0.0141	7.49E-03	0.1408	5.50E-04	0.0826	0.0222
	Total	0.0179	0.1498	0.1964	1.14E-03	0.1076	0.0301
TOTAL		0.73	3.02	5.05	0.02	2.47	1.21

Onsite		2038					
	Fugitive Dust	0.00	0.00	0.00	0.00	2.27	1.10
	Off-Road	0.72	2.87	4.85	0.02	0.09	0.09
	Total	0.72	2.87	4.85	0.02	2.36	1.19
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.01	0.01	0.17	0.00	0.08	0.02
	Total	0.02	0.15	0.22	0.00	0.11	0.03
TOTAL		0.73	3.02	5.08	0.02	2.47	1.22

P3 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2038 Summer					
	Off-Road	0.5761	2.9031	7.1465	1.40E-02	4.23E-02	4.23E-02
	Total	0.5761	2.9031	7.1465	1.40E-02	4.23E-02	4.23E-02
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	8.26E-03	0.2692	1.08E-01	1.17E-03	4.99E-02	1.58E-02
	Worker	3.76E-02	1.88E-02	0.4463	1.58E-03	0.2169	5.83E-02
	Total	4.58E-02	0.288	0.5542	2.75E-03	0.2668	7.41E-02
TOTAL		0.62	3.19	7.70	0.02	0.31	0.12

Onsite		2038 Winter					
	Off-Road	0.5761	2.9031	7.1465	0.014	0.0423	0.0423
	Total	0.5761	2.9031	7.1465	0.014	0.0423	0.0423
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	7.58E-03	0.2846	0.1113	1.17E-03	0.0499	0.0158
	Worker	0.0371	0.0197	0.3695	1.43E-03	0.2169	0.0583

	Total	0.0447	0.3042	0.4808	2.60E-03	0.2668	0.0741
TOTAL		0.62	3.21	7.63	0.02	0.31	0.12
Onsite	2038						
	Off-Road	0.58	2.90	7.15	0.01	0.04	0.04
	Total	0.58	2.90	7.15	0.01	0.04	0.04
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.28	0.11	0.00	0.05	0.02
	Worker	0.04	0.02	0.45	0.00	0.22	0.06
	Total	0.05	0.30	0.55	0.00	0.27	0.07
TOTAL		0.62	3.21	7.70	0.02	0.31	0.12

P3 Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2038 Summer						
	Off-Road	0.6458	3.4702	7.4752	0.0133	0.1067	0.1067
	Paving	0				0	0
	Total	0.6458	3.4702	7.4752	0.0133	0.1067	0.1067
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0322	0.0161	0.3826	1.35E-03	0.1859	0.0499
	Total	0.0322	0.0161	0.3826	1.35E-03	0.1859	0.0499
TOTAL		0.68	3.49	7.86	0.01	0.29	0.16

Onsite	2038 Winter						
	Off-Road	0.6458	3.4702	7.4752	0.0133	0.1067	0.1067
	Paving	0				0	0
	Total	0.6458	3.4702	7.4752	0.0133	0.1067	0.1067
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0318	0.0169	0.3167	1.23E-03	0.1859	0.0499
	Total	0.0318	0.0169	0.3167	1.23E-03	0.1859	0.0499
TOTAL		0.68	3.49	7.79	0.01	0.29	0.16

Onsite	2038						
	Off-Road	0.65	3.47	7.48	0.01	0.11	0.11
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.65	3.47	7.48	0.01	0.11	0.11
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.38	0.00	0.19	0.05
	Total	0.03	0.02	0.38	0.00	0.19	0.05
TOTAL		0.68	3.49	7.86	0.01	0.29	0.16

P3 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2038 Summer						
	Archit. Coating	92.9521				0	0
	Off-Road	0.1179	0.7577	1.7943	2.97E-03	9.90E-03	9.90E-03
	Total	93.07	0.7577	1.7943	2.97E-03	9.90E-03	9.90E-03
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0

	Worker	7.16E-03	3.58E-03	0.085	3.00E-04	0.0413	0.0111
	Total	7.16E-03	3.58E-03	0.085	3.00E-04	0.0413	0.0111
TOTAL		93.08	0.76	1.88	0.00	0.05	0.02

Onsite

2038 Winter

Archit. Coating	92.9521				0	0
Off-Road	0.1179	0.7577	1.7943	2.97E-03	9.90E-03	9.90E-03
Total	93.07	0.7577	1.7943	2.97E-03	9.90E-03	9.90E-03

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0.00E+00	0	0
Worker	7.07E-03	3.74E-03	0.0704	2.70E-04	0.0413	0.0111
Total	7.07E-03	3.74E-03	0.0704	2.70E-04	0.0413	0.0111

TOTAL

	93.08	0.76	1.86	0.00	0.05	0.02
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Onsite

2038

Archit. Coating	92.95	0.00	0.00	0.00	0.00	0.00
Off-Road	0.12	0.76	1.79	0.00	0.01	0.01
Total	93.07	0.76	1.79	0.00	0.01	0.01

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.01	0.00	0.09	0.00	0.04	0.01
Total	0.01	0.00	0.09	0.00	0.04	0.01

TOTAL

	93.08	0.76	1.88	0.00	0.05	0.02
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Phase 3 All Activities Overlap		95.55	12.13	26.53	0.07	3.44	1.59
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P4 Demolition

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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Onsite

2042 Summer

Fugitive Dust					1.2149	0.1839
Off-Road	0.4996	3.0819	7.4089	0.0133	0.0355	0.0355
Total	0.4996	3.0819	7.4089	0.0133	1.2504	0.2194

Offsite

Hauling	0.0299	1.3261	0.4345	5.60E-03	0.2291	0.0726
Vendor	4.13E-03	0.1336	0.054	5.60E-04	0.0249	7.90E-03
Worker	0.0141	7.80E-03	0.1946	7.20E-04	0.1033	0.0277
Total	0.0482	1.4676	0.6831	6.88E-03	0.3573	0.1082

TOTAL

	0.55	4.55	8.09	0.02	1.61	0.33
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Onsite

2042 Winter

Fugitive Dust					1.2149	0.1839
Off-Road	0.4996	3.0819	7.4089	0.0133	0.0355	0.0355
Total	0.4996	3.0819	7.4089	0.0133	1.2504	0.2194

Offsite

Hauling	0.0275	1.3996	0.4423	5.61E-03	0.2291	0.0726
Vendor	3.79E-03	0.1413	0.0558	5.60E-04	0.025	7.90E-03
Worker	0.0142	8.16E-03	0.1611	6.50E-04	0.1033	0.0277
Total	0.0454	1.5491	0.6592	6.82E-03	0.3573	0.1082

TOTAL

	0.55	4.63	8.07	0.02	1.61	0.25
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Onsite

2042

Fugitive Dust	0.00	0.00	0.00	0.00	1.21	0.18
Off-Road	0.50	3.08	7.41	0.01	0.04	0.04
Total	0.50	3.08	7.41	0.01	1.25	0.22

Offsite

Hauling	0.03	1.40	0.44	0.01	0.23	0.07
Vendor	0.00	0.14	0.06	0.00	0.03	0.01
Worker	0.01	0.01	0.19	0.00	0.10	0.03
Total	0.05	1.55	0.68	0.01	0.36	0.11
TOTAL	0.55	4.63	8.09	0.02	1.61	0.33

P4 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Fugitive Dust					0.2267	0.0245
	Off-Road	0.415	1.4268	3.876	0.0119	0.0277	0.0277
	Total	0.415	1.4268	3.876	0.0119	0.2544	0.0522
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	2.07E-03	0.0668	0.027	2.80E-04	0.0125	3.95E-03
	Worker	7.07E-03	3.90E-03	0.0973	3.60E-04	0.0516	0.0139
	Total	9.14E-03	0.0707	0.1243	6.40E-04	0.0641	0.0178
TOTAL		0.42	1.50	4.00	0.01	0.32	0.07

Onsite	2042 Winter						
	Fugitive Dust					0.2267	0.0245
	Off-Road	0.415	1.4268	3.876	0.0119	0.0277	0.0277
	Total	0.415	1.4268	3.876	0.0119	0.2544	0.0522
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	1.89E-03	0.0707	0.0279	2.80E-04	0.0125	3.95E-03
	Worker	7.08E-03	4.08E-03	0.0806	3.30E-04	0.0516	0.0139
	Total	8.97E-03	0.0747	0.1084	6.10E-04	0.0641	0.0178
TOTAL		0.42	1.50	3.98	0.01	0.32	0.07

Onsite	2042						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.23	0.02
	Off-Road	0.42	1.43	3.88	0.01	0.03	0.03
	Total	0.42	1.43	3.88	0.01	0.25	0.05
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.07	0.03	0.00	0.01	0.00
	Worker	0.01	0.00	0.10	0.00	0.05	0.01
	Total	0.01	0.07	0.12	0.00	0.06	0.02
TOTAL		0.42	1.50	4.00	0.01	0.32	0.07

P4 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Fugitive Dust					2.2709	1.0981
	Off-Road	0.662	2.2462	4.801	0.0173	0.0626	0.0626
	Total	0.662	2.2462	4.801	0.0173	2.3334	1.1606
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	4.13E-03	0.1336	0.054	5.60E-04	0.0249	7.90E-03
	Worker	0.0113	6.24E-03	0.1557	5.80E-04	0.0826	0.0222
	Total	0.0154	0.1399	0.2097	1.14E-03	0.1075	0.0301
TOTAL		0.68	2.39	5.01	0.02	2.44	1.19

Onsite	2042 Winter						
	Fugitive Dust					2.2709	1.0981
	Off-Road	0.662	2.2462	4.801	0.0173	0.0626	0.0626
	Total	0.662	2.2462	4.801	0.0173	2.3334	1.1606

Offsite	Hauling	0	0	0	0	0	0
	Vendor	3.79E-03	0.1413	0.0558	5.60E-04	0.025	7.90E-03
	Worker	0.0113	6.53E-03	0.1289	5.20E-04	0.0826	0.0222
	Total	0.0151	0.1479	0.1846	1.08E-03	0.1076	0.0301
TOTAL		0.68	2.39	4.99	0.02	2.44	1.18

Onsite	2042						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.27	1.10
	Off-Road	0.66	2.25	4.80	0.02	0.06	0.06
	Total	0.66	2.25	4.80	0.02	2.33	1.16

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.01	0.01	0.16	0.00	0.08	0.02
	Total	0.02	0.15	0.21	0.00	0.11	0.03
TOTAL		0.68	2.39	5.01	0.02	2.44	1.19

P4 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Off-Road	0.5667	2.7853	7.1504	0.014	0.0355	0.0355
	Total	0.5667	2.7853	7.1504	0.014	0.0355	0.0355

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0186	0.6013	0.2431	2.53E-03	0.1123	0.0355
	Worker	0.065	0.0359	0.8952	3.32E-03	0.4749	0.1274
	Total	0.0836	0.6372	1.1382	5.85E-03	0.5872	0.1629
TOTAL		0.65	3.42	8.29	0.02	0.62	0.20

Onsite	2042 Winter						
	Off-Road	0.5667	2.7853	7.1504	0.014	0.0355	0.0355
	Total	0.5667	2.7853	7.1504	0.014	0.0355	0.0355

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.017	0.636	0.2509	2.54E-03	0.1123	0.0355
	Worker	0.0651	0.0375	0.741	3.01E-03	0.4749	0.1274
	Total	0.0822	0.6735	0.9919	5.55E-03	0.5872	0.1629
TOTAL		0.65	3.46	8.14	0.02	0.62	0.20

Onsite	2042						
	Off-Road	0.57	2.79	7.15	0.01	0.04	0.04
	Total	0.57	2.79	7.15	0.01	0.04	0.04

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.64	0.25	0.00	0.11	0.04
	Worker	0.07	0.04	0.90	0.00	0.47	0.13
	Total	0.08	0.67	1.14	0.01	0.59	0.16
TOTAL		0.65	3.46	8.29	0.02	0.62	0.20

P4 Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Off-Road	0.609	3.1337	7.4736	0.0133	0.0844	0.0844
	Paving	0				0	0
	Total	0.609	3.1337	7.4736	0.0133	0.0844	0.0844
Offsite							

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0.00E+00	0	0
Worker	0.0254	0.014	0.3503	1.30E-03	0.1858	0.0499
Total	0.0254	0.014	0.3503	1.30E-03	0.1858	0.0499
TOTAL	0.63	3.15	7.82	0.01	0.27	0.13

Onsite	2042 Winter					
Off-Road	0.609	3.1337	7.4736	0.0133	0.0844	0.0844
Paving	0				0	0
Total	0.609	3.1337	7.4736	0.0133	0.0844	0.0844

Offsite						
Hauling	0	0	0	0	0	0
Vendor	0	0	0	0.00E+00	0	0
Worker	0.0255	0.0147	0.29	1.18E-03	0.1858	0.0499
Total	0.0255	0.0147	0.29	1.18E-03	0.1858	0.0499
TOTAL	0.63	3.15	7.76	0.01	0.27	0.13

Onsite	2042					
Off-Road	0.61	3.13	7.47	0.01	0.08	0.08
Paving	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.61	3.13	7.47	0.01	0.08	0.08

Offsite						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.03	0.01	0.35	0.00	0.19	0.05
Total	0.03	0.01	0.35	0.00	0.19	0.05
TOTAL	0.63	3.15	7.82	0.01	0.27	0.13

P4 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
Archit. Coating	201.6299					0	0
Off-Road	0.1149	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03	
Total	201.7448	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03	

Offsite							
Hauling	0	0	0	0	0	0	
Vendor	0	0	0	0.00E+00	0	0	
Worker	0.0127	7.02E-03	0.1751	6.50E-04	0.0929	0.0249	
Total	0.0127	7.02E-03	0.1751	6.50E-04	0.0929	0.0249	
TOTAL	201.76	0.73	1.97	0.00	0.10	0.03	

Onsite	2042 Winter						
Archit. Coating	201.6299					0	0
Off-Road	0.1149	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03	
Total	201.7448	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03	

Offsite							
Hauling	0	0	0	0	0	0	
Vendor	0	0	0	0.00E+00	0	0	
Worker	0.0127	7.34E-03	0.145	5.90E-04	0.0929	0.0249	
Total	0.0127	7.34E-03	0.145	5.90E-04	0.0929	0.0249	
TOTAL	201.76	0.73	1.94	0.00	0.10	0.03	

Onsite	2042						
Archit. Coating	201.63	0.00	0.00	0.00	0.00	0.00	
Off-Road	0.11	0.73	1.79	0.00	0.01	0.01	
Total	201.74	0.73	1.79	0.00	0.01	0.01	

Offsite

	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.18	0.00	0.09	0.02
	Total	0.01	0.01	0.18	0.00	0.09	0.02
TOTAL		201.76	0.73	1.97	0.00	0.10	0.03

Phase 4 All Activities Overlap		204.01	13.47	30.17	0.07	2.92	0.76
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P5 Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2049 Summer					
	Fugitive Dust					1.6759	0.2538
	Off-Road	1.6982	5.3064	18.5788	0.0462	0.1629	0.1629
	Total	1.6982	5.3064	18.5788	0.0462	1.8388	0.4166
Offsite							
	Hauling	4.12E-02	1.8282	0.5988	7.58E-03	0.3159	1.00E-01
	Vendor	4.14E-03	0.1335	0.054	5.50E-04	0.0249	7.90E-03
	Worker	0.0187	1.11E-02	0.2805	1.06E-03	0.1548	0.0415
	Total	0.0641	1.9728	0.9333	9.19E-03	0.4957	0.1495
TOTAL		1.76	7.28	19.51	0.06	2.33	0.57

Onsite		2049 Winter					
	Fugitive Dust					1.6759	0.2538
	Off-Road	1.6982	5.3064	18.5788	0.0462	0.1629	0.1629
	Total	1.6982	5.3064	18.5788	0.0462	1.8388	0.4166
Offsite							
	Hauling	3.78E-02	1.9297	0.6096	7.59E-03	0.3159	1.00E-01
	Vendor	3.80E-03	0.1412	0.0558	5.50E-04	0.025	7.90E-03
	Worker	0.0189	0.0116	0.2321	9.60E-04	0.1548	0.0415
	Total	0.0605	2.0825	0.8975	9.10E-03	0.4957	0.1496
TOTAL		1.76	7.39	19.48	0.06	2.33	0.46

Onsite		2049					
	Fugitive Dust	0.00	0.00	0.00	0.00	1.68	0.25
	Off-Road	1.70	5.31	18.58	0.05	0.16	0.16
	Total	1.70	5.31	18.58	0.05	1.84	0.42
Offsite							
	Hauling	0.04	1.93	0.61	0.01	0.32	0.10
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.02	0.01	0.28	0.00	0.15	0.04
	Total	0.06	2.08	0.93	0.01	0.50	0.15
TOTAL		1.76	7.39	19.51	0.06	2.33	0.57

P5 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2049 Summer					
	Fugitive Dust					8.4034	4.3188
	Off-Road	1.9657	7.9943	15.7797	0.0466	0.2026	0.2026
	Total	1.9657	7.9943	15.7797	0.0466	8.6059	4.5214
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	8.29E-03	0.267	0.1081	1.10E-03	0.0499	1.58E-02
	Worker	2.25E-02	1.33E-02	0.3366	1.27E-03	0.1858	0.0498
	Total	0.0307	0.2803	0.4447	2.37E-03	0.2357	0.0656
TOTAL		2.00	8.27	16.22	0.05	8.84	4.59

Onsite		2049 Winter					
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Offsite	Fugitive Dust					8.4034	4.3188
	Off-Road	1.9657	7.9943	15.7797	0.0466	0.2026	0.2026
	Total	1.9657	7.9943	15.7797	0.0466	8.6059	4.5214
Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.60E-03	0.2824	0.1116	1.11E-03	0.0499	1.58E-02
	Worker	0.0227	1.40E-02	0.2785	1.15E-03	0.1858	0.0498
	Total	0.0303	0.2964	0.39	2.26E-03	0.2357	0.0656
TOTAL	2.00	8.29	16.17	0.05	8.84	4.57	

Onsite	2049						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	1.97	7.99	15.78	0.05	0.20	0.20
	Total	1.97	7.99	15.78	0.05	8.61	4.52
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.28	0.11	0.00	0.05	0.02
	Worker	0.02	0.01	0.34	0.00	0.19	0.05
	Total	0.03	0.30	0.44	0.00	0.24	0.07
TOTAL		2.00	8.29	16.22	0.05	8.84	4.59

P5 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2049 Summer						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.7241	7.3885	22.3122	0.0699	0.225	0.225
	Total	2.7241	7.3885	22.3122	0.0699	4.1596	1.787
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	1.66E-02	0.5339	0.2162	2.21E-03	0.0998	0.0316
	Worker	0.0249	1.48E-02	0.374	1.41E-03	0.2064	0.0553
	Total	0.0415	0.5488	0.5902	3.62E-03	0.3062	0.0869
TOTAL		2.77	7.94	22.90	0.07	4.47	1.87

Onsite	2049 Winter						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.7241	7.3885	22.3122	0.0699	0.225	0.225
	Total	2.7241	7.3885	22.3122	0.0699	4.1596	1.787
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	1.52E-02	0.5648	0.2231	2.21E-03	0.0998	0.0316
	Worker	0.0252	1.55E-02	0.3094	1.28E-03	0.2064	0.0553
	Total	0.0404	0.5803	0.5326	3.49E-03	0.3062	0.0869
TOTAL		2.76	7.97	22.84	0.07	4.47	1.84

Onsite	2049						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.72	7.39	22.31	0.07	0.23	0.23
	Total	2.72	7.39	22.31	0.07	4.16	1.79
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.56	0.22	0.00	0.10	0.03
	Worker	0.03	0.02	0.37	0.00	0.21	0.06
	Total	0.04	0.58	0.59	0.00	0.31	0.09
TOTAL		2.77	7.97	22.90	0.07	4.47	1.87

P5 Building Construction

ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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Onsite

2049 Summer

Off-Road	1.197	6.8903	16.1185	0.031	0.0737	0.0737
Total	1.197	6.8903	16.1185	0.031	0.0737	0.0737

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.0269	0.8677	0.3513	3.59E-03	0.1621	0.0513
Worker	0.0836	0.0497	1.253	4.74E-03	0.6916	0.1854
Total	0.1105	0.9173	1.6042	8.33E-03	0.8537	0.2367

TOTAL

1.31 7.81 17.72 0.04 0.93 0.31

Onsite

2049 Winter

Off-Road	1.197	6.8903	16.1185	0.031	0.0737	0.0737
Total	1.197	6.8903	16.1185	0.031	0.0737	0.0737

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.0247	0.9178	0.3626	3.60E-03	0.1622	0.0513
Worker	0.0845	0.052	1.0366	4.30E-03	0.6916	0.1854
Total	0.1092	0.9697	1.3992	7.90E-03	0.8537	0.2367

TOTAL

1.31 7.86 17.52 0.04 0.93 0.31

Onsite

2049

Off-Road	1.20	6.89	16.12	0.03	0.07	0.07
Total	1.20	6.89	16.12	0.03	0.07	0.07

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.92	0.36	0.00	0.16	0.05
Worker	0.08	0.05	1.25	0.00	0.69	0.19
Total	0.11	0.97	1.60	0.01	0.85	0.24

TOTAL

1.31 7.86 17.72 0.04 0.93 0.31

ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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Onsite

2050 Summer

Off-Road	1.197	6.8903	16.1185	0.031	0.0737	0.0737
Total	1.197	6.8903	16.1185	0.031	0.0737	0.0737

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.0269	0.8689	0.348	3.57E-03	0.1621	0.0513
Worker	0.0795	0.0495	1.2397	4.70E-03	0.6915	0.1853
Total	0.1063	0.9184	1.5877	8.27E-03	0.8536	0.2367

TOTAL

1.30 7.81 17.71 0.04 0.93 0.31

Onsite

2050 Winter

Off-Road	1.197	6.8903	16.1185	0.031	0.0737	0.0737
Total	1.197	6.8903	16.1185	0.031	0.0737	0.0737

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.0247	0.9191	0.3591	3.58E-03	0.1621	0.0513
Worker	0.0808	0.0518	1.0249	4.26E-03	0.6915	0.1853
Total	0.1054	0.9709	1.384	7.84E-03	0.8537	0.2367

TOTAL

1.30 7.86 17.50 0.04 0.93 0.31

Onsite

2050

Off-Road	1.20	6.89	16.12	0.03	0.07	0.07
Total	1.20	6.89	16.12	0.03	0.07	0.07

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.92	0.36	0.00	0.16	0.05

	Worker	0.08	0.05	1.24	0.00	0.69	0.19
	Total	0.11	0.97	1.59	0.01	0.85	0.24
TOTAL		1.30	7.86	17.71	0.04	0.93	0.31

P5 Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2050 Summer					
	Off-Road	1.0112	3.6566	15.8177	0.0281	0.1164	0.1164
	Paving	0				0	0
	Total	1.0112	3.6566	15.8177	0.0281	0.1164	0.1164
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0178	1.11E-02	0.2775	1.05E-03	0.1548	0.0415
	Total	0.0178	1.11E-02	0.2775	1.05E-03	0.1548	0.0415
TOTAL		1.03	3.67	16.10	0.03	0.27	0.16

Onsite		2050 Winter					
	Off-Road	1.0112	3.6566	15.8177	0.0281	0.1164	0.1164
	Paving	0				0	0
	Total	1.0112	3.6566	15.8177	0.0281	0.1164	0.1164
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0181	0.0116	0.2295	9.50E-04	0.1548	0.0415
	Total	0.0181	0.0116	0.2295	9.50E-04	0.1548	0.0415
TOTAL		1.03	3.67	16.05	0.03	0.27	0.16

Onsite		2050					
	Off-Road	1.01	3.66	15.82	0.03	0.12	0.12
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.01	3.66	15.82	0.03	0.12	0.12
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.28	0.00	0.15	0.04
	Total	0.02	0.01	0.28	0.00	0.15	0.04
TOTAL		1.03	3.67	16.10	0.03	0.27	0.16

P5 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2050 Summer					
	Archit. Coating	73.5417				0	0
	Off-Road	0.1149	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03
	Total	73.6566	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0154	9.60E-03	0.2405	9.10E-04	0.1342	0.036
	Total	0.0154	9.60E-03	0.2405	9.10E-04	0.1342	0.036
TOTAL		73.67	0.74	2.03	0.00	0.14	0.04

Onsite		2050 Winter					
	Archit. Coating	73.5417				0	0
	Off-Road	0.1149	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03
	Total	73.6566	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03
Offsite							

	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0157	0.01	0.1989	8.30E-04	0.1342	0.036
	Total	0.0157	0.01	0.1989	8.30E-04	0.1342	0.036
TOTAL		73.67	0.74	1.99	0.00	0.14	0.04
Onsite	2050						
	Archit. Coating	73.54	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.11	0.73	1.79	0.00	0.01	0.01
	Total	73.66	0.73	1.79	0.00	0.01	0.01
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.24	0.00	0.13	0.04
	Total	0.02	0.01	0.24	0.00	0.13	0.04
TOTAL		73.67	0.74	2.03	0.00	0.14	0.04
	Phase 5 All Activities Overlap	82.53	35.91	94.49	0.25	16.98	7.54
	Phase 1 Maximum Daily	71.98	28.57	27.17	0.07	9.73	5.38
	Phase 2 Maximum Daily	122.14	10.19	13.95	0.04	3.35	1.69
	Phase 3 Maximum Daily	93.08	3.49	7.86	0.02	2.47	1.22
	Phase 4 Maximum Daily	201.76	4.63	8.29	0.02	2.44	1.19
	Phase 5 Maximum Daily	73.67	8.29	22.90	0.07	8.84	4.59
	Individual Development Phase Worst-Case Scenario Max Daily	201.76	28.57	27.17	0.07	9.73	5.38
	Regional Thresholds	75	100	550	150	150	55
	Exceeds Thresholds?	Yes	No	No	No	No	No
	Phase 1 - All Activities Overlap Maximum Daily	84.72	102.21	111.30	0.26	23.25	11.39
	Phase 2 - All Activities Overlap Maximum Daily	127.84	34.55	54.01	0.14	9.96	4.36
	Phase 3 - All Activities Overlap Maximum Daily	95.55	12.13	26.53	0.07	3.44	1.59
	Phase 4 - All Activities Overlap Maximum Daily	204.01	13.47	30.17	0.07	2.92	0.76
	Phase 5 - All Activities Overlap Maximum Daily	82.53	35.91	94.49	0.25	16.98	7.54
	Activities Overlap Worst-Case Scenario Max Daily	204.01	102.21	111.30	0.26	23.25	11.39
	Regional Thresholds	75	100	550	150	150	55
	Exceeds Thresholds?	Yes	Yes	No	No	No	No

Regional Construction Emissions Worksheet - Mitigated

*CalEEMod, Version 2020.4.0

P1 Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2026 Summer					
Onsite	Fugitive Dust					1.0109	0.1531
	Off-Road	2.0926	19.1966	19.4184	0.0388	0.8528	0.792
	Total	2.0926	19.1966	19.4184	0.0388	1.8636	0.945
Offsite	Hauling	2.61E-02	1.1997	0.3715	5.86E-03	0.1937	6.20E-02
	Vendor	4.41E-03	0.1397	0.0562	6.80E-04	0.025	7.96E-03
	Worker	0.0474	0.0253	0.4575	1.36E-03	0.1553	0.0419
	Total	0.0779	1.3646	0.8852	7.90E-03	0.3739	0.1119
TOTAL		2.17	20.56	20.30	0.05	2.24	1.06
		2026 Winter					
Onsite	Fugitive Dust					1.0109	0.1531
	Off-Road	2.0926	19.1966	19.4184	0.0388	0.8528	0.792
	Total	2.0926	19.1966	19.4184	0.0388	1.8636	0.945
Offsite	Hauling	2.41E-02	1.2648	0.3781	5.87E-03	0.1937	6.20E-02
	Vendor	4.08E-03	0.1475	0.058	6.80E-04	0.025	7.97E-03
	Worker	0.046	0.0266	0.3778	1.23E-03	0.1553	0.0419
	Total	0.0742	1.4389	0.8139	7.78E-03	0.374	0.1119
TOTAL		2.17	20.64	20.23	0.05	2.24	0.99
		2026					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	1.01	0.15
	Off-Road	2.09	19.20	19.42	0.04	0.85	0.79
	Total	2.09	19.20	19.42	0.04	1.86	0.95
Offsite	Hauling	0.03	1.26	0.38	0.01	0.19	0.06
	Vendor	0.00	0.15	0.06	0.00	0.03	0.01
	Worker	0.05	0.03	0.46	0.00	0.16	0.04
	Total	0.08	1.44	0.89	0.01	0.37	0.11
TOTAL		2.17	20.64	20.30	0.05	2.24	1.06

Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2026 Summer					
Onsite	Fugitive Dust					7.2829	3.743
	Off-Road	0.6967	12.162	22.96	0.0381	0.0621	0.0621
	Total	0.6967	12.162	22.96	0.0381	7.345	3.805
Offsite	Hauling	0	0	0	0	0	0
	Vendor	8.82E-03	0.2793	0.1125	1.36E-03	0.05	0.0159
	Worker	0.0569	0.0304	0.549	1.63E-03	0.1863	0.0503
	Total	0.0658	0.3097	0.6614	2.99E-03	0.2364	0.0662
TOTAL		0.76	12.47	23.62	0.04	7.58	3.87

		2026 Winter					
Onsite	Fugitive Dust					7.2829	3.743
	Off-Road	0.6967	12.162	22.96	0.0381	0.0621	0.0621
	Total	0.6967	12.162	22.96	0.0381	7.345	3.805
Offsite	Hauling	0	0	0	0	0	0
	Vendor	8.16E-03	0.2951	0.116	1.36E-03	0.05	0.0159
	Worker	0.0552	0.0319	0.4534	1.48E-03	0.1863	0.0503
	Total	0.0634	0.3269	0.5694	2.84E-03	0.2364	0.0662
TOTAL	0.76	12.49	23.53	0.04	7.58	3.86	

		2026					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	7.28	3.74
	Off-Road	0.70	12.16	22.96	0.04	0.06	0.06
	Total	0.70	12.16	22.96	0.04	7.35	3.81
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.30	0.12	0.00	0.05	0.02
	Worker	0.06	0.03	0.55	0.00	0.19	0.05
	Total	0.07	0.33	0.66	0.00	0.24	0.07
TOTAL	0.76	12.49	23.62	0.04	7.58	3.87	

P1 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2026 Summer					
Onsite	Fugitive Dust					3.4099	1.3537
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	Total	1.011	19.2707	36.7226	0.0621	3.5115	1.4553
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0176	0.5587	0.2249	2.71E-03	0.1001	0.0319
	Worker	0.0633	0.0337	0.61	1.81E-03	0.207	0.0559
	Total	0.0809	0.5924	0.8349	4.52E-03	0.3071	0.0877
TOTAL	1.09	19.86	37.56	0.07	3.82	1.54	

		2026 Winter					
Onsite	Fugitive Dust					3.4099	1.3537
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	Total	1.011	19.2707	36.7226	0.0621	3.5115	1.4553
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0163	0.5901	0.232	2.72E-03	0.1001	0.0319
	Worker	0.0614	0.0354	0.5037	1.64E-03	0.207	0.0559
	Total	0.0777	0.6255	0.7357	4.36E-03	0.3071	0.0877
TOTAL	1.09	19.90	37.46	0.07	3.82	1.51	

		2026					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	3.41	1.35
	Off-Road	1.01	19.27	36.72	0.06	0.10	0.10
	Total	1.01	19.27	36.72	0.06	3.51	1.46
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.59	0.23	0.00	0.10	0.03
	Worker	0.06	0.04	0.61	0.00	0.21	0.06
	Total	0.08	0.63	0.83	0.00	0.31	0.09
TOTAL	1.09	19.90	37.56	0.07	3.82	1.54	

P1 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2026 Summer						
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1256	3.9804	1.6025	1.93E-02	0.7129	0.2269
	Worker	0.9267	0.494	8.936	0.0266	3.0328	0.8186
	Total	1.0523	4.4744	10.5386	0.0459	3.7458	1.0455
TOTAL		2.42	16.94	26.62	0.07	4.27	1.54

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2026 Winter						
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1163	4.2045	1.6529	1.94E-02	0.713	0.227
	Worker	0.8992	0.5189	7.3797	0.0241	3.0328	0.8186
	Total	1.0154	4.7233	9.0326	0.0435	3.7459	1.0456
TOTAL		2.38	17.19	25.12	0.07	4.27	1.54

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2026						
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	1.37	12.47	16.08	0.03	0.53	0.50
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.13	4.20	1.65	0.02	0.71	0.23
	Worker	0.93	0.52	8.94	0.03	3.03	0.82
	Total	1.05	4.72	10.54	0.05	3.75	1.05
TOTAL		2.42	17.19	26.62	0.07	4.27	1.54

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2027 Summer						
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1237	3.9505	1.584	1.89E-02	0.7127	0.2267
	Worker	0.8682	0.4485	8.4114	0.0258	3.032	0.8178
	Total	0.9919	4.399	9.9954	0.0447	3.7447	1.0445
TOTAL		2.36	16.87	26.08	0.07	4.27	1.54

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2027 Winter						
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
Offsite	Hauling	0	0	0	0	0	0

	Vendor	0.1143	4.1732	1.634	1.90E-02	0.7128	0.2268
	Worker	0.8442	0.4709	6.9518	2.34E-02	3.032	0.8178
	Total	0.9585	4.6441	8.5858	0.0424	3.7448	1.0446
TOTAL		2.33	17.11	24.67	0.07	4.27	1.54
Onsite	2027						
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	1.37	12.47	16.08	0.03	0.53	0.50
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.12	4.17	1.63	0.02	0.71	0.23
	Worker	0.87	0.47	8.41	0.03	3.03	0.82
	Total	0.99	4.64	10.00	0.04	3.74	1.04
TOTAL		2.36	17.11	26.08	0.07	4.27	1.54

P1 Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2027 Summer						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	1.6611				0	0
	Total	2.5762	8.5816	14.578	0.0228	0.4185	0.385
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0445	0.023	0.4306	1.32E-03	0.1552	0.0419
	Total	0.0445	0.023	0.4306	1.32E-03	0.1552	0.0419
TOTAL		2.62	8.60	15.01	0.02	0.57	0.43

Onsite	2027 Winter						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	1.6611				0	0
	Total	2.5762	8.5816	14.578	0.0228	0.4185	0.385
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0432	0.0241	0.3559	1.20E-03	0.1552	0.0419
	Total	0.0432	0.0241	0.3559	1.20E-03	0.1552	0.0419
TOTAL		2.62	8.61	14.93	0.02	0.57	0.43

Onsite	2027						
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	1.66	0.00	0.00	0.00	0.00	0.00
	Total	2.58	8.58	14.58	0.02	0.42	0.39
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.43	0.00	0.16	0.04
	Total	0.04	0.02	0.43	0.00	0.16	0.04
TOTAL		2.62	8.61	15.01	0.02	0.57	0.43

P1 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2027 Summer						
	Archit. Coating	26.2983				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	Total	26.4691	1.1455	1.8091	2.97E-03	0.0515	0.0515

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.1748	0.0903	1.6938	5.19E-03	0.6105	0.1647
TOTAL	Total	0.1748	0.0903	1.6938	5.19E-03	0.6105	0.1647

Onsite	2027 Winter						
	Archit. Coating	26.2983				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	Total	26.4691	1.1455	1.8091	2.97E-03	0.0515	0.0515

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.17	0.0948	1.3999	4.71E-03	0.6105	0.1647
TOTAL	Total	0.17	0.0948	1.3999	4.71E-03	0.6105	0.1647

Onsite	2027						
	Archit. Coating	26.30	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	Total	26.47	1.15	1.81	0.00	0.05	0.05

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.17	0.09	1.69	0.01	0.61	0.16
TOTAL	Total	0.17	0.09	1.69	0.01	0.61	0.16

Phase 1 All Activities Overlap		35.71	80.06	126.62	0.26	19.15	8.66
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P2 Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2030 Summer						
	Fugitive Dust					1.6974	0.257
	Off-Road	1.3307	8.0078	12.9685	0.0281	0.2148	0.2148
	Total	1.3307	8.0078	12.9685	0.0281	1.9122	0.4718

Offsite	Hauling	0.0421	1.9157	0.6083	8.86E-03	0.3203	0.1021
	Vendor	4.20E-03	0.1364	0.0543	6.30E-04	0.025	7.94E-03
	Worker	0.0317	0.0155	0.3226	1.06E-03	0.1344	0.0362
TOTAL	Total	0.078	2.0677	0.9851	1.06E-02	0.4797	0.1463

Onsite	2030 Winter						
	Fugitive Dust					1.6974	0.257
	Off-Road	1.3307	8.0078	12.9685	0.0281	0.2148	0.2148
	Total	1.3307	8.0078	12.9685	0.0281	1.9122	0.4718

Offsite	Hauling	0.0388	2.0205	0.6191	8.87E-03	0.3203	0.1022
	Vendor	3.87E-03	0.1442	0.056	6.30E-04	0.025	7.94E-03
	Worker	0.031	0.0163	0.267	9.60E-04	0.1344	0.0362
TOTAL	Total	0.0737	2.1809	0.942	1.05E-02	0.4797	0.1463

		2030					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	1.70	0.26
	Off-Road	1.33	8.01	12.97	0.03	0.21	0.21
	Total	1.33	8.01	12.97	0.03	1.91	0.47
Offsite	Hauling	0.04	2.02	0.62	0.01	0.32	0.10
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.03	0.02	0.32	0.00	0.13	0.04
	Total	0.08	2.18	0.99	0.01	0.48	0.15
TOTAL		1.41	10.19	13.95	0.04	2.39	0.62

P2 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2030 Summer					
Onsite	Fugitive Dust					2.3216	1.113
	Off-Road	0.2998	5.0659	9.8221	0.0211	0.0281	0.0281
	Total	0.2998	5.0659	9.8221	0.0211	2.3497	1.1411
Offsite	Hauling	0	0	0	0	0	0
	Vendor	4.20E-03	0.1364	0.0543	6.30E-04	0.025	7.94E-03
	Worker	0.0195	9.54E-03	0.1985	6.50E-04	0.0827	0.0223
	Total	0.0237	0.146	0.2528	1.28E-03	0.1077	0.0302
TOTAL		0.32	5.21	10.07	0.02	2.46	1.17

		2030 Winter					
Onsite	Fugitive Dust					2.3216	1.113
	Off-Road	0.2998	5.0659	9.8221	0.0211	0.0281	0.0281
	Total	0.2998	5.0659	9.8221	0.0211	2.3497	1.1411
Offsite	Hauling	0	0	0	0	0	0
	Vendor	3.87E-03	0.1442	0.056	6.30E-04	0.025	7.94E-03
	Worker	0.0191	0.01	0.1643	5.90E-04	0.0827	0.0223
	Total	0.0229	0.1542	0.2203	1.22E-03	0.1077	0.0302
TOTAL		0.32	5.22	10.04	0.02	2.46	1.16

		2030					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	2.32	1.11
	Off-Road	0.30	5.07	9.82	0.02	0.03	0.03
	Total	0.30	5.07	9.82	0.02	2.35	1.14
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.02	0.01	0.20	0.00	0.08	0.02
	Total	0.02	0.15	0.25	0.00	0.11	0.03
TOTAL		0.32	5.22	10.07	0.02	2.46	1.17

P2 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2030 Summer						
	Fugitive Dust					2.6241	1.2689
	Off-Road	0.3694	6.3628	12.145	0.0252	0.0336	0.0336
	Total	0.3694	6.3628	12.145	0.0252	2.6577	1.3025
Offsite	Hauling	0	0	0	0	0	0
	Vendor	6.30E-03	0.2046	0.0814	9.40E-04	0.0375	0.0119
	Worker	0.0244	0.0119	0.2481	8.20E-04	0.1034	0.0278
	Total	0.0307	0.2166	0.3295	1.76E-03	0.1409	0.0397
TOTAL	0.40	6.58	12.47	0.03	2.80	1.34	

Onsite	2030 Winter						
	Fugitive Dust					2.6241	1.2689
	Off-Road	0.3694	6.3628	12.145	0.0252	0.0336	0.0336
	Total	0.3694	6.3628	12.145	0.0252	2.6577	1.3025
Offsite	Hauling	0	0	0	0	0	0
	Vendor	5.80E-03	0.2162	0.084	9.40E-04	0.0375	0.0119
	Worker	0.0238	0.0125	0.2054	7.40E-04	0.1034	0.0278
	Total	0.0296	0.2287	0.2894	1.68E-03	0.1409	0.0397
TOTAL	0.40	6.59	12.43	0.03	2.80	1.33	

Onsite	2030						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.62	1.27
	Total	0.37	6.36	12.15	0.03	2.66	1.30
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.22	0.08	0.00	0.04	0.01
	Worker	0.02	0.01	0.25	0.00	0.10	0.03
	Total	0.03	0.23	0.33	0.00	0.14	0.04
TOTAL	0.40	6.59	12.47	0.03	2.80	1.34	

P2 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2030 Summer						
	Off-Road	1.0812	7.1882	12.1101	0.0238	0.127	0.127
	Total	1.0812	7.1882	12.1101	0.0238	0.127	0.127
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0231	0.7503	0.2985	3.44E-03	0.1375	0.0437
	Worker	0.1341	0.0656	1.3647	4.49E-03	0.5687	0.1531
	Total	0.1572	0.8159	1.6632	7.93E-03	0.7061	0.1968
TOTAL	1.24	8.00	13.77	0.03	0.83	0.32	

Onsite	2030 Winter						
	Off-Road	1.0812	7.1882	12.1101	0.0238	0.127	0.127
	Total	1.0812	7.1882	12.1101	0.0238	0.127	0.127
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0213	0.7928	0.308	3.45E-03	0.1375	0.0437
	Worker	0.1311	0.0688	1.1295	4.07E-03	0.5687	0.1531
	Total	0.1523	0.8616	1.4374	7.52E-03	0.7062	0.1968
	TOTAL	1.23	8.05	13.55	0.03	0.83	0.32

Onsite	2030						
	Off-Road	1.08	7.19	12.11	0.02	0.13	0.13
	Total	1.08	7.19	12.11	0.02	0.13	0.13
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.79	0.31	0.00	0.14	0.04
	Worker	0.13	0.07	1.36	0.00	0.57	0.15
	Total	0.16	0.86	1.66	0.01	0.71	0.20
	TOTAL	1.24	8.05	13.77	0.03	0.83	0.32

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2031 Summer						
	Off-Road	1.0812	7.1882	12.1101	0.0238	0.127	0.127
	Total	1.0812	7.1882	12.1101	0.0238	0.127	0.127
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.023	0.7497	0.2977	3.39E-03	0.1373	0.0436
	Worker	0.1253	0.061	1.3195	4.41E-03	0.5686	0.153
	Total	0.1483	0.8107	1.6172	7.80E-03	0.7059	0.1965
	TOTAL	1.23	8.00	13.73	0.03	0.83	0.32

Onsite	2031 Winter						
	Off-Road	1.0812	7.1882	12.1101	0.0238	0.127	0.127
	Total	1.0812	7.1882	12.1101	0.0238	0.127	0.127
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0211	0.7922	0.3071	3.40E-03	0.1373	0.0436
	Worker	0.1227	0.0639	1.0919	3.99E-03	0.5686	0.153
	Total	0.1438	0.8561	1.399	7.39E-03	0.7059	0.1965
	TOTAL	1.23	8.04	13.51	0.03	0.83	0.32

Onsite	2031						
	Off-Road	1.08	7.19	12.11	0.02	0.13	0.13
	Total	1.08	7.19	12.11	0.02	0.13	0.13
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.79	0.31	0.00	0.14	0.04
	Worker	0.13	0.06	1.32	0.00	0.57	0.15
	Total	0.15	0.86	1.62	0.01	0.71	0.20
	TOTAL	1.23	8.04	13.73	0.03	0.83	0.32

P2 Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2031 Summer					
Onsite	Off-Road	0.8162	4.3905	9.4567	0.0165	0.1728	0.1728
	Paving	0				0	0
	Total	0.8162	4.3905	9.4567	0.0165	0.1728	0.1728
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0296	0.0144	0.3119	1.04E-03	0.1344	0.0362
	Total	0.0296	0.0144	0.3119	1.04E-03	0.1344	0.0362
TOTAL		0.85	4.40	9.77	0.02	0.31	0.21
		2031 Winter					
Onsite	Off-Road	0.8162	4.3905	9.4567	0.0165	0.1728	0.1728
	Paving	0				0	0
	Total	0.8162	4.3905	9.4567	0.0165	0.1728	0.1728
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.029	0.0151	0.2581	9.40E-04	0.1344	0.0362
	Total	0.029	0.0151	0.2581	9.40E-04	0.1344	0.0362
TOTAL		0.85	4.41	9.71	0.02	0.31	0.21
		2031					
Onsite	Off-Road	0.82	4.39	9.46	0.02	0.17	0.17
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.82	4.39	9.46	0.02	0.17	0.17
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.31	0.00	0.13	0.04
	Total	0.03	0.02	0.31	0.00	0.13	0.04
TOTAL		0.85	4.41	9.77	0.02	0.31	0.21

P2 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		2031 Summer					
Onsite	Archit. Coating	24.3964				0	0
	Off-Road	0.1308	0.8563	1.7977	2.97E-03	0.0203	0.0203
	Total	24.5271	0.8563	1.7977	2.97E-03	0.0203	0.0203
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0251	0.0122	0.2639	8.80E-04	0.1137	0.0306
	Total	0.0251	0.0122	0.2639	8.80E-04	0.1137	0.0306
TOTAL		24.55	0.87	2.06	0.00	0.13	0.05
		2031 Winter					
Onsite	Archit. Coating	24.3964				0	0
	Off-Road	0.1308	0.8563	1.7977	2.97E-03	0.0203	0.0203
	Total	24.5271	0.8563	1.7977	2.97E-03	0.0203	0.0203
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0

	Worker	0.0245	0.0128	0.2184	8.00E-04	0.1137	0.0306
	Total	0.0245	0.0128	0.2184	8.00E-04	0.1137	0.0306
TOTAL		24.55	0.87	2.02	0.00	0.13	0.05
Onsite	2031						
	Archit. Coating	24.40	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.13	0.86	1.80	0.00	0.02	0.02
	Total	24.53	0.86	1.80	0.00	0.02	0.02
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.01	0.26	0.00	0.11	0.03
	Total	0.03	0.01	0.26	0.00	0.11	0.03
TOTAL		24.55	0.87	2.06	0.00	0.13	0.05
Phase 2 All Activities Overlap		28.77	35.32	62.11	0.14	8.92	3.72

P3 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2038 Summer						
	Fugitive Dust					2.27E-01	2.45E-02
	Off-Road	4.28E-01	1.57E+00	3.88E+00	1.19E-02	3.43E-02	3.43E-02
	Total	4.28E-01	1.57E+00	3.88E+00	1.19E-02	2.61E-01	5.88E-02
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	2.07E-03	6.73E-02	2.70E-02	2.90E-04	1.25E-02	3.95E-03
	Worker	8.95E-03	4.47E-03	1.06E-01	3.80E-04	5.17E-02	1.39E-02
	Total	0.011	7.18E-02	1.33E-01	6.70E-04	6.41E-02	1.78E-02
TOTAL		0.44	1.65	4.01	0.01	0.33	0.08
Onsite	2038 Winter						
	Fugitive Dust					0.2267	0.0245
	Off-Road	0.4284	1.574	3.8815	0.0119	0.0343	0.0343
	Total	0.4284	1.574	3.8815	0.0119	0.261	0.0588
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	1.90E-03	0.0711	0.0278	2.90E-04	0.0125	3.95E-03
	Worker	8.83E-03	4.68E-03	0.088	3.40E-04	0.0517	0.0139
	Total	0.0107	0.0758	0.1158	6.30E-04	0.0641	0.0178
TOTAL		0.44	1.65	4.00	0.01	0.33	0.07
Onsite	2038						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.23	0.02
	Off-Road	0.43	1.57	3.88	0.01	0.03	0.03
	Total	0.43	1.57	3.88	0.01	0.26	0.06
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.07	0.03	0.00	0.01	0.00
	Worker	0.01	0.00	0.11	0.00	0.05	0.01
	Total	0.01	0.08	0.13	0.00	0.06	0.02
TOTAL		0.44	1.65	4.01	0.01	0.33	0.08

P3 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2038 Summer						
	Fugitive Dust					2.27E+00	1.10E+00
	Off-Road	7.16E-01	2.87E+00	4.85E+00	1.73E-02	8.74E-02	8.74E-02
	Total	7.16E-01	2.87E+00	4.85E+00	1.73E-02	2.36E+00	1.19E+00
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	4.13E-03	1.35E-01	5.40E-02	5.80E-04	2.50E-02	7.90E-03
	Worker	1.43E-02	7.15E-03	1.70E-01	6.00E-04	8.26E-02	2.22E-02
	Total	1.85E-02	1.42E-01	2.24E-01	1.18E-03	1.08E-01	3.01E-02
TOTAL		0.73	3.01	5.08	0.02	2.47	1.22

Onsite	2038 Winter						
	Fugitive Dust					2.2709	1.0981
	Off-Road	0.7155	2.873	4.8534	0.0173	0.0874	0.0874
	Total	0.7155	2.873	4.8534	0.0173	2.3583	1.1855
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	3.79E-03	0.1423	0.0557	5.90E-04	0.025	7.91E-03
	Worker	0.0141	7.49E-03	0.1408	5.50E-04	0.0826	0.0222
	Total	0.0179	0.1498	0.1964	1.14E-03	0.1076	0.0301
TOTAL		0.73	3.02	5.05	0.02	2.47	1.21

Onsite	2038						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.27	1.10
	Off-Road	0.72	2.87	4.85	0.02	0.09	0.09
	Total	0.72	2.87	4.85	0.02	2.36	1.19
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.01	0.01	0.17	0.00	0.08	0.02
	Total	0.02	0.15	0.22	0.00	0.11	0.03
TOTAL		0.73	3.02	5.08	0.02	2.47	1.22

P3 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2038 Summer						
	Off-Road	0.5761	2.9031	7.1465	1.40E-02	4.23E-02	4.23E-02
	Total	0.5761	2.9031	7.1465	1.40E-02	4.23E-02	4.23E-02
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	8.26E-03	0.2692	1.08E-01	1.17E-03	4.99E-02	1.58E-02
	Worker	3.76E-02	1.88E-02	0.4463	1.58E-03	0.2169	5.83E-02
	Total	4.58E-02	0.288	0.5542	2.75E-03	0.2668	7.41E-02

TOTAL **0.62** **3.19** **7.70** **0.02** **0.31** **0.12**

Onsite

2038 Winter

Off-Road	0.5761	2.9031	7.1465	0.014	0.0423	0.0423
Total	0.5761	2.9031	7.1465	0.014	0.0423	0.0423

Offsite

Hauling	0	0	0	0	0	0
Vendor	7.58E-03	0.2846	0.1113	1.17E-03	0.0499	0.0158
Worker	0.0371	0.0197	0.3695	1.43E-03	0.2169	0.0583
Total	0.0447	0.3042	0.4808	2.60E-03	0.2668	0.0741

TOTAL

0.62 **3.21** **7.63** **0.02** **0.31** **0.12**

Onsite

2038

Off-Road	0.58	2.90	7.15	0.01	0.04	0.04
Total	0.58	2.90	7.15	0.01	0.04	0.04

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.28	0.11	0.00	0.05	0.02
Worker	0.04	0.02	0.45	0.00	0.22	0.06
Total	0.05	0.30	0.55	0.00	0.27	0.07

TOTAL

0.62 **3.21** **7.70** **0.02** **0.31** **0.12**

P3 Paving

ROG **NOx** **CO** **SO2** **PM10 Total** **PM2.5 Total**

Onsite

2038 Summer

Off-Road	0.6458	3.4702	7.4752	0.0133	0.1067	0.1067
Paving	0				0	0
Total	0.6458	3.4702	7.4752	0.0133	0.1067	0.1067

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0.00E+00	0	0
Worker	0.0322	0.0161	0.3826	1.35E-03	0.1859	0.0499
Total	0.0322	0.0161	0.3826	1.35E-03	0.1859	0.0499

TOTAL

0.68 **3.49** **7.86** **0.01** **0.29** **0.16**

Onsite

2038 Winter

Off-Road	0.6458	3.4702	7.4752	0.0133	0.1067	0.1067
Paving	0				0	0
Total	0.6458	3.4702	7.4752	0.0133	0.1067	0.1067

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0.00E+00	0	0
Worker	0.0318	0.0169	0.3167	1.23E-03	0.1859	0.0499
Total	0.0318	0.0169	0.3167	1.23E-03	0.1859	0.0499

TOTAL

0.68 **3.49** **7.79** **0.01** **0.29** **0.16**

Onsite

2038

Off-Road	0.65	3.47	7.48	0.01	0.11	0.11
Paving	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.65	3.47	7.48	0.01	0.11	0.11

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
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	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.02	0.38	0.00	0.19	0.05
	Total	0.03	0.02	0.38	0.00	0.19	0.05
TOTAL		0.68	3.49	7.86	0.01	0.29	0.16

P3 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2038 Summer						
	Archit. Coating	18.5904				0	0
	Off-Road	0.1179	0.7577	1.7943	2.97E-03	9.90E-03	9.90E-03
	Total	18.7083	0.7577	1.7943	2.97E-03	9.90E-03	9.90E-03
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.16E-03	3.58E-03	0.085	3.00E-04	0.0413	0.0111
	Total	7.16E-03	3.58E-03	0.085	3.00E-04	0.0413	0.0111
TOTAL		18.72	0.76	1.88	0.00	0.05	0.02

Onsite	2038 Winter						
	Archit. Coating	18.5904				0	0
	Off-Road	0.1179	0.7577	1.7943	2.97E-03	9.90E-03	9.90E-03
	Total	18.7083	0.7577	1.7943	2.97E-03	9.90E-03	9.90E-03
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.07E-03	3.74E-03	0.0704	2.70E-04	0.0413	0.0111
	Total	7.07E-03	3.74E-03	0.0704	2.70E-04	0.0413	0.0111
TOTAL		18.72	0.76	1.86	0.00	0.05	0.02

Onsite	2038						
	Archit. Coating	18.59	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.12	0.76	1.79	0.00	0.01	0.01
	Total	18.71	0.76	1.79	0.00	0.01	0.01
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.09	0.00	0.04	0.01
	Total	0.01	0.00	0.09	0.00	0.04	0.01
TOTAL		18.72	0.76	1.88	0.00	0.05	0.02

Phase 3 All Activities Overlap	21.19	12.13	26.53	0.07	3.44	1.59
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P4 Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Fugitive Dust					1.2149	0.1839
	Off-Road	0.4996	3.0819	7.4089	0.0133	0.0355	0.0355
	Total	0.4996	3.0819	7.4089	0.0133	1.2504	0.2194
Offsite							
	Hauling	0.0299	1.3261	0.4345	5.60E-03	0.2291	0.0726
	Vendor	4.13E-03	0.1336	0.054	5.60E-04	0.0249	7.90E-03

	Worker	0.0141	7.80E-03	0.1946	7.20E-04	0.1033	0.0277
	Total	0.0482	1.4676	0.6831	6.88E-03	0.3573	0.1082
TOTAL		0.55	4.55	8.09	0.02	1.61	0.33

Onsite	2042 Winter						
	Fugitive Dust					1.2149	0.1839
	Off-Road	0.4996	3.0819	7.4089	0.0133	0.0355	0.0355
	Total	0.4996	3.0819	7.4089	0.0133	1.2504	0.2194

Offsite	Hauling	0.0275	1.3996	0.4423	5.61E-03	0.2291	0.0726
	Vendor	3.79E-03	0.1413	0.0558	5.60E-04	0.025	7.90E-03
	Worker	0.0142	8.16E-03	0.1611	6.50E-04	0.1033	0.0277
	Total	0.0454	1.5491	0.6592	6.82E-03	0.3573	0.1082
TOTAL		0.55	4.63	8.07	0.02	1.61	0.25

Onsite	2042						
	Fugitive Dust	0.00	0.00	0.00	0.00	1.21	0.18
	Off-Road	0.50	3.08	7.41	0.01	0.04	0.04
	Total	0.50	3.08	7.41	0.01	1.25	0.22

Offsite	Hauling	0.03	1.40	0.44	0.01	0.23	0.07
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.01	0.01	0.19	0.00	0.10	0.03
	Total	0.05	1.55	0.68	0.01	0.36	0.11
TOTAL		0.55	4.63	8.09	0.02	1.61	0.33

P4 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Fugitive Dust					0.2267	0.0245
	Off-Road	0.415	1.4268	3.876	0.0119	0.0277	0.0277
	Total	0.415	1.4268	3.876	0.0119	0.2544	0.0522
Offsite	Hauling	0	0	0	0	0	0
	Vendor	2.07E-03	0.0668	0.027	2.80E-04	0.0125	3.95E-03
	Worker	7.07E-03	3.90E-03	0.0973	3.60E-04	0.0516	0.0139
	Total	9.14E-03	0.0707	0.1243	6.40E-04	0.0641	0.0178
TOTAL		0.42	1.50	4.00	0.01	0.32	0.07

Onsite	2042 Winter						
	Fugitive Dust					0.2267	0.0245
	Off-Road	0.415	1.4268	3.876	0.0119	0.0277	0.0277
	Total	0.415	1.4268	3.876	0.0119	0.2544	0.0522

Offsite

	Hauling	0	0	0	0	0	0
	Vendor	1.89E-03	0.0707	0.0279	2.80E-04	0.0125	3.95E-03
	Worker	7.08E-03	4.08E-03	0.0806	3.30E-04	0.0516	0.0139
	Total	8.97E-03	0.0747	0.1084	6.10E-04	0.0641	0.0178
TOTAL		0.42	1.50	3.98	0.01	0.32	0.07
Onsite	2042						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.23	0.02
	Off-Road	0.42	1.43	3.88	0.01	0.03	0.03
	Total	0.42	1.43	3.88	0.01	0.25	0.05
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.07	0.03	0.00	0.01	0.00
	Worker	0.01	0.00	0.10	0.00	0.05	0.01
	Total	0.01	0.07	0.12	0.00	0.06	0.02
TOTAL		0.42	1.50	4.00	0.01	0.32	0.07

P4 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Fugitive Dust					2.2709	1.0981
	Off-Road	0.662	2.2462	4.801	0.0173	0.0626	0.0626
	Total	0.662	2.2462	4.801	0.0173	2.3334	1.1606
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	4.13E-03	0.1336	0.054	5.60E-04	0.0249	7.90E-03
	Worker	0.0113	6.24E-03	0.1557	5.80E-04	0.0826	0.0222
	Total	0.0154	0.1399	0.2097	1.14E-03	0.1075	0.0301
TOTAL		0.68	2.39	5.01	0.02	2.44	1.19
Onsite	2042 Winter						
	Fugitive Dust					2.2709	1.0981
	Off-Road	0.662	2.2462	4.801	0.0173	0.0626	0.0626
	Total	0.662	2.2462	4.801	0.0173	2.3334	1.1606
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	3.79E-03	0.1413	0.0558	5.60E-04	0.025	7.90E-03
	Worker	0.0113	6.53E-03	0.1289	5.20E-04	0.0826	0.0222
	Total	0.0151	0.1479	0.1846	1.08E-03	0.1076	0.0301
TOTAL		0.68	2.39	4.99	0.02	2.44	1.18
Onsite	2042						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.27	1.10
	Off-Road	0.66	2.25	4.80	0.02	0.06	0.06
	Total	0.66	2.25	4.80	0.02	2.33	1.16
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.01	0.01	0.16	0.00	0.08	0.02
	Total	0.02	0.15	0.21	0.00	0.11	0.03
TOTAL		0.68	2.39	5.01	0.02	2.44	1.19

P4 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Off-Road	0.5667	2.7853	7.1504	0.014	0.0355	0.0355
	Total	0.5667	2.7853	7.1504	0.014	0.0355	0.0355
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0186	0.6013	0.2431	2.53E-03	0.1123	0.0355
	Worker	0.065	0.0359	0.8952	3.32E-03	0.4749	0.1274
	Total	0.0836	0.6372	1.1382	5.85E-03	0.5872	0.1629
	TOTAL	0.65	3.42	8.29	0.02	0.62	0.20
Onsite	2042 Winter						
	Off-Road	0.5667	2.7853	7.1504	0.014	0.0355	0.0355
	Total	0.5667	2.7853	7.1504	0.014	0.0355	0.0355
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.017	0.636	0.2509	2.54E-03	0.1123	0.0355
	Worker	0.0651	0.0375	0.741	3.01E-03	0.4749	0.1274
	Total	0.0822	0.6735	0.9919	5.55E-03	0.5872	0.1629
	TOTAL	0.65	3.46	8.14	0.02	0.62	0.20
Onsite	2042						
	Off-Road	0.57	2.79	7.15	0.01	0.04	0.04
	Total	0.57	2.79	7.15	0.01	0.04	0.04
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.64	0.25	0.00	0.11	0.04
	Worker	0.07	0.04	0.90	0.00	0.47	0.13
	Total	0.08	0.67	1.14	0.01	0.59	0.16
	TOTAL	0.65	3.46	8.29	0.02	0.62	0.20

P4 Paving

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Off-Road	0.609	3.1337	7.4736	0.0133	0.0844	0.0844
	Paving	0				0	0
	Total	0.609	3.1337	7.4736	0.0133	0.0844	0.0844
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0254	0.014	0.3503	1.30E-03	0.1858	0.0499
	Total	0.0254	0.014	0.3503	1.30E-03	0.1858	0.0499
	TOTAL	0.63	3.15	7.82	0.01	0.27	0.13
Onsite	2042 Winter						
	Off-Road	0.609	3.1337	7.4736	0.0133	0.0844	0.0844
	Paving	0				0	0

	Total	0.609	3.1337	7.4736	0.0133	0.0844	0.0844
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0255	0.0147	0.29	1.18E-03	0.1858	0.0499
	Total	0.0255	0.0147	0.29	1.18E-03	0.1858	0.0499
TOTAL		0.63	3.15	7.76	0.01	0.27	0.13

Onsite	2042						
	Off-Road	0.61	3.13	7.47	0.01	0.08	0.08
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.61	3.13	7.47	0.01	0.08	0.08

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.03	0.01	0.35	0.00	0.19	0.05
	Total	0.03	0.01	0.35	0.00	0.19	0.05
TOTAL		0.63	3.15	7.82	0.01	0.27	0.13

P4 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2042 Summer						
	Archit. Coating	40.326				0	0
	Off-Road	0.1149	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03
	Total	40.4409	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0127	7.02E-03	0.1751	6.50E-04	0.0929	0.0249
	Total	0.0127	7.02E-03	0.1751	6.50E-04	0.0929	0.0249
TOTAL		40.45	0.73	1.97	0.00	0.10	0.03

Onsite	2042 Winter						
	Archit. Coating	40.326				0	0
	Off-Road	0.1149	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03
	Total	40.4409	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0127	7.34E-03	0.145	5.90E-04	0.0929	0.0249
	Total	0.0127	7.34E-03	0.145	5.90E-04	0.0929	0.0249
TOTAL		40.45	0.73	1.94	0.00	0.10	0.03

Onsite	2042						
	Archit. Coating	40.33	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.11	0.73	1.79	0.00	0.01	0.01
	Total	40.44	0.73	1.79	0.00	0.01	0.01

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.18	0.00	0.09	0.02
	Total	0.01	0.01	0.18	0.00	0.09	0.02
TOTAL		40.45	0.73	1.97	0.00	0.10	0.03

Phase 4 All Activities Overlap	42.71	13.47	30.17	0.07	2.92	0.76
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P5 Demolition

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2049 Summer						
	Fugitive Dust					1.6759	0.2538
	Off-Road	1.1266	5.7269	12.7926	0.0281	0.098	0.098
	Total	1.1266	5.7269	12.7926	0.0281	1.7739	0.3517
Offsite	Hauling	4.12E-02	1.8282	0.5988	7.58E-03	0.3159	1.00E-01
	Vendor	4.14E-03	0.1335	0.054	5.50E-04	0.0249	7.90E-03
	Worker	0.0162	9.63E-03	0.2431	9.20E-04	0.1342	0.036
	Total	0.0616	1.9713	0.8959	9.05E-03	0.475	0.144
TOTAL	1.19	7.70	13.69	0.04	2.25	0.50	

Onsite	2049 Winter						
	Fugitive Dust					1.6759	0.2538
	Off-Road	1.1266	5.7269	12.7926	0.0281	0.098	0.098
	Total	1.1266	5.7269	12.7926	0.0281	1.7739	0.3517
Offsite	Hauling	3.78E-02	1.9297	0.6096	7.59E-03	0.3159	1.00E-01
	Vendor	3.80E-03	0.1412	0.0558	5.50E-04	0.025	7.90E-03
	Worker	0.0164	0.0101	0.2011	8.30E-04	0.1342	0.036
	Total	0.058	2.0809	0.8665	8.97E-03	0.4751	0.144
TOTAL	1.18	7.81	13.66	0.04	2.25	0.39	

Onsite	2049						
	Fugitive Dust	0.00	0.00	0.00	0.00	1.68	0.25
	Off-Road	1.13	5.73	12.79	0.03	0.10	0.10
	Total	1.13	5.73	12.79	0.03	1.77	0.35
Offsite	Hauling	0.04	1.93	0.61	0.01	0.32	0.10
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01
	Worker	0.02	0.01	0.24	0.00	0.13	0.04
	Total	0.06	2.08	0.90	0.01	0.48	0.14
TOTAL	1.19	7.81	13.69	0.04	2.25	0.50	

P5 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2049 Summer						
	Fugitive Dust					2.6788	1.2843
	Off-Road	0.8008	2.6618	5.7438	0.0211	0.075	0.075
	Total	0.8008	2.6618	5.7438	0.0211	2.7538	1.3592
Offsite	Hauling	0	0	0	0	0	0
	Vendor	4.14E-03	0.1335	0.054	5.50E-04	0.0249	7.90E-03
	Worker	9.98E-03	5.93E-03	0.1496	5.70E-04	0.0826	0.0221
	Total	0.0141	0.1394	0.2037	1.12E-03	0.1075	0.03
TOTAL	0.81	2.80	5.95	0.02	2.86	1.39	

Onsite	2049 Winter						
	Fugitive Dust					2.6788	1.2843
	Off-Road	0.8008	2.6618	5.7438	0.0211	0.075	0.075
	Total	0.8008	2.6618	5.7438	0.0211	2.7538	1.3592
Offsite	Hauling	0	0	0	0	0	0
	Vendor	3.80E-03	0.1412	0.0558	5.50E-04	0.025	7.90E-03
	Worker	0.0101	6.20E-03	0.1238	5.10E-04	0.0826	0.0221
	Total	0.0139	0.1474	0.1796	1.06E-03	0.1075	0.03
TOTAL	0.81	2.81	5.92	0.02	2.86	1.38	

Onsite		2049						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.68	1.28	
	Off-Road	0.80	2.66	5.74	0.02	0.08	0.08	
	Total	0.80	2.66	5.74	0.02	2.75	1.36	
Offsite								
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	
	Vendor	0.00	0.14	0.06	0.00	0.03	0.01	
	Worker	0.01	0.01	0.15	0.00	0.08	0.02	
	Total	0.01	0.15	0.20	0.00	0.11	0.03	
TOTAL		0.81	2.81	5.95	0.02	2.86	1.39	

P5 Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2049 Summer					
	Fugitive Dust					3.0278	1.4641
	Off-Road	0.9764	3.5432	7.7686	0.0252	0.0893	0.0893
	Total	0.9764	3.5432	7.7686	0.0252	3.1171	1.5534
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	6.21E-03	0.2002	0.0811	8.30E-04	0.0374	0.0118
	Worker	0.0125	7.41E-03	0.187	7.10E-04	0.1032	0.0277
	Total	0.0187	0.2076	0.2681	1.54E-03	0.1406	0.0395
TOTAL		1.00	3.75	8.04	0.03	3.26	1.59

Onsite		2049 Winter					
	Fugitive Dust					3.0278	1.4641
	Off-Road	0.9764	3.5432	7.7686	0.0252	0.0893	0.0893
	Total	0.9764	3.5432	7.7686	0.0252	3.1171	1.5534
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	5.70E-03	0.2118	0.0837	8.30E-04	0.0374	0.0119
	Worker	0.0126	7.75E-03	0.1547	6.40E-04	0.1032	0.0277
	Total	0.0183	0.2196	0.2384	1.47E-03	0.1406	0.0395
TOTAL		0.99	3.76	8.01	0.03	3.26	1.58

Onsite		2049					
	Fugitive Dust	0.00	0.00	0.00	0.00	3.03	1.46
	Off-Road	0.98	3.54	7.77	0.03	0.09	0.09
	Total	0.98	3.54	7.77	0.03	3.12	1.55
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.21	0.08	0.00	0.04	0.01
	Worker	0.01	0.01	0.19	0.00	0.10	0.03
	Total	0.02	0.22	0.27	0.00	0.14	0.04
TOTAL		1.00	3.76	8.04	0.03	3.26	1.59

P5 Building Construction

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2049 Summer					
	Off-Road	0.9653	6.2823	12.0407	0.0238	0.0525	0.0525
	Total	0.9653	6.2823	12.0407	0.0238	0.0525	0.0525
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0269	0.8677	0.3513	3.59E-03	0.1621	0.0513
	Worker	0.0836	0.0497	1.253	4.74E-03	0.6916	0.1854
	Total	0.1105	0.9173	1.6042	8.33E-03	0.8537	0.2367
TOTAL		1.08	7.20	13.64	0.03	0.91	0.29

Onsite	2049 Winter					
Off-Road	0.9653	6.2823	12.0407	0.0238	0.0525	0.0525
Total	0.9653	6.2823	12.0407	0.0238	0.0525	0.0525
Offsite						
Hauling	0	0	0	0	0	0
Vendor	0.0247	0.9178	0.3626	3.60E-03	0.1622	0.0513
Worker	0.0845	0.052	1.0366	4.30E-03	0.6916	0.1854
Total	0.1092	0.9697	1.3992	7.90E-03	0.8537	0.2367
TOTAL	1.07	7.25	13.44	0.03	0.91	0.29

Onsite	2049					
Off-Road	0.97	6.28	12.04	0.02	0.05	0.05
Total	0.97	6.28	12.04	0.02	0.05	0.05
Offsite						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.92	0.36	0.00	0.16	0.05
Worker	0.08	0.05	1.25	0.00	0.69	0.19
Total	0.11	0.97	1.60	0.01	0.85	0.24
TOTAL	1.08	7.25	13.64	0.03	0.91	0.29

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2050 Summer					
Off-Road	0.9653	6.2823	12.0407	0.0238	0.0525	0.0525
Total	0.9653	6.2823	12.0407	0.0238	0.0525	0.0525
Offsite						
Hauling	0	0	0	0	0	0
Vendor	0.0269	0.8689	0.348	3.57E-03	0.1621	0.0513
Worker	0.0795	0.0495	1.2397	4.70E-03	0.6915	0.1853
Total	0.1063	0.9184	1.5877	8.27E-03	0.8536	0.2367
TOTAL	1.07	7.20	13.63	0.03	0.91	0.29

Onsite	2050 Winter					
Off-Road	0.9653	6.2823	12.0407	0.0238	0.0525	0.0525
Total	0.9653	6.2823	12.0407	0.0238	0.0525	0.0525
Offsite						
Hauling	0	0	0	0	0	0
Vendor	0.0247	0.9191	0.3591	3.58E-03	0.1621	0.0513
Worker	0.0808	0.0518	1.0249	4.26E-03	0.6915	0.1853
Total	0.1054	0.9709	1.384	7.84E-03	0.8537	0.2367
TOTAL	1.07	7.25	13.42	0.03	0.91	0.29

Onsite	2050					
Off-Road	0.97	6.28	12.04	0.02	0.05	0.05
Total	0.97	6.28	12.04	0.02	0.05	0.05
Offsite						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.92	0.36	0.00	0.16	0.05
Worker	0.08	0.05	1.24	0.00	0.69	0.19
Total	0.11	0.97	1.59	0.01	0.85	0.24
TOTAL	1.07	7.25	13.63	0.03	0.91	0.29

P5 Paving						
	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2050 Summer					
Off-Road	0.6431	2.8019	9.4422	0.0165	0.0712	0.0712
Paving	0				0	0

	Total	0.6431	2.8019	9.4422	0.0165	0.0712	0.0712
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0154	9.60E-03	0.2405	9.10E-04	0.1342	0.036
	Total	0.0154	9.60E-03	0.2405	9.10E-04	0.1342	0.036
TOTAL		0.66	2.81	9.68	0.02	0.21	0.11

Onsite	2050 Winter						
Off-Road	0.6431	2.8019	9.4422	0.0165	0.0712	0.0712	
Paving	0				0	0	
Total	0.6431	2.8019	9.4422	0.0165	0.0712	0.0712	

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0.00E+00	0	0
	Worker	0.0157	0.01	0.1989	8.30E-04	0.1342	0.036
	Total	0.0157	0.01	0.1989	8.30E-04	0.1342	0.036
TOTAL		0.66	2.81	9.64	0.02	0.21	0.11

Onsite	2050						
Off-Road	0.64	2.80	9.44	0.02	0.07	0.07	
Paving	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.64	2.80	9.44	0.02	0.07	0.07	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.24	0.00	0.13	0.04
	Total	0.02	0.01	0.24	0.00	0.13	0.04
TOTAL		0.66	2.81	9.68	0.02	0.21	0.11

P5 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2050 Summer						
Archit. Coating	29.4167					0	0
Off-Road	0.1149	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03	
Total	29.5316	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03	

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0154	9.60E-03	0.2405	9.10E-04	0.1342	0.036
	Total	0.0154	9.60E-03	0.2405	9.10E-04	0.1342	0.036
TOTAL		29.55	0.74	2.03	0.00	0.14	0.04

Onsite	2050 Winter						
Archit. Coating	29.4167					0	0
Off-Road	0.1149	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03	
Total	29.5316	0.727	1.7923	2.97E-03	7.43E-03	7.43E-03	

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0157	0.01	0.1989	8.30E-04	0.1342	0.036
	Total	0.0157	0.01	0.1989	8.30E-04	0.1342	0.036
TOTAL		29.55	0.74	1.99	0.00	0.14	0.04

Onsite	2050						
Archit. Coating	29.42	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.11	0.73	1.79	0.00	0.01	0.01	

Offsite	Total	29.53	0.73	1.79	0.00	0.01	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.24	0.00	0.13	0.04
	Total	0.02	0.01	0.24	0.00	0.13	0.04
TOTAL		29.55	0.74	2.03	0.00	0.14	0.04
	Phase 1 Maximum Daily	26.64	20.64	37.56	0.07	7.58	3.87
	Phase 2 Maximum Daily	24.55	10.19	13.95	0.04	2.80	1.34
	Phase 3 Maximum Daily	18.72	3.49	7.86	0.02	2.47	1.22
	Phase 4 Maximum Daily	40.45	4.63	8.29	0.02	2.44	1.19
	Phase 5 Maximum Daily	29.55	7.81	13.69	0.04	3.26	1.59
	Phase 5 All Activities Overlap	32.40	21.02	41.03	0.11	3.48	1.82
	Individual Development Phase Worst-Case Scenario Max Daily	42.71	80.06	126.62	0.26	19.15	8.66
	Regional Thresholds	75	100	550	150	150	55
	Exceeds Thresholds?	No	No	No	No	No	No
	Phase 1 - All Activities Overlap Maximum Daily	35.71	80.06	126.62	0.26	19.15	8.66
	Phase 2 - All Activities Overlap Maximum Daily	28.77	35.32	62.11	0.14	8.92	3.72
	Phase 3 - All Activities Overlap Maximum Daily	21.19	12.13	26.53	0.07	3.44	1.59
	Phase 4 - All Activities Overlap Maximum Daily	42.71	13.47	30.17	0.07	2.92	0.76
	Phase 5 - All Activities Overlap Maximum Daily	26.64	20.64	37.56	0.07	7.58	3.87
	Activities Overlap Worst-Case Scenario Max Daily	42.71	80.06	126.62	0.26	19.15	8.66
	Regional Thresholds	75	100	550	150	150	55
	Exceeds Thresholds?	No	No	No	No	No	No

Localized Construction Emissions Worksheet - Unmitigated

*CalEEMod, Version 2020.4.0

P1 Demolition

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2026				
	Fugitive Dust			1.3503	0.2044
	Off-Road	19.1966	19.4184	0.8528	0.792
	Total	19.1966	19.4184	2.203	0.9964
TOTAL		19.20	19.42	2.20	1.00

Onsite	2026				
	Fugitive Dust			1.3503	0.2044
	Off-Road	19.1966	19.4184	0.8528	0.792
	Total	19.1966	19.4184	2.203	0.9964
TOTAL		19.20	19.42	2.20	1.00

Onsite	2026				
	Fugitive Dust	0.00	0.00	1.35	0.20
	Off-Road	19.20	19.42	0.85	0.79
	Total	19.20	19.42	2.20	1.00
TOTAL		19.20	19.42	2.20	1.00

≤1.00-Acre Screening-Level LSTs⁴	118	863	5.00	4.00
Exceeds Thresholds?	No	No	No	No

Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2026				
	Fugitive Dust			8.4034	4.3188
	Off-Road	25.2339	17.9118	1.0868	0.9999
	Total	25.2339	17.9118	9.4902	5.3187
TOTAL		25.23	17.91	9.49	5.32

Onsite	2026				
	Fugitive Dust			8.4034	4.3188
	Off-Road	25.2339	17.9118	1.0868	0.9999
	Total	25.2339	17.9118	9.4902	5.3187
TOTAL		25.23	17.91	9.49	5.32

Onsite	2026				
	Fugitive Dust	0.00	0.00	8.40	4.32
	Off-Road	25.23	17.91	1.09	1.00
	Total	25.23	17.91	9.49	5.32
TOTAL		25.23	17.91	9.49	5.32

3.50-Acre Screening-Level LSTs⁴	220	1,712	10.99	7.00
Exceeds Thresholds?	No	No	No	No

P1 Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2026				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	27.9429	26.3311	5.0654	2.6024
TOTAL		27.94	26.33	5.07	2.60
Onsite	2026				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	27.9429	26.3311	5.0654	2.6024
TOTAL		27.94	26.33	5.07	2.60
Onsite	2026				
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	27.94	26.33	1.13	1.04
	Total	27.94	26.33	5.07	2.60
TOTAL		27.94	26.33	5.07	2.60
4.00-Acre Screening-Level LSTs⁴		237	1,872	12.66	7.67
Exceeds Thresholds?		No	No	No	No

P1 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2026				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963
TOTAL		12.47	16.08	0.53	0.50
Onsite	2026				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963
TOTAL		12.47	16.08	0.53	0.50
Onsite	2026				
	Off-Road	12.47	16.08	0.53	0.50
	Total	12.47	16.08	0.53	0.50
TOTAL		12.47	16.08	0.53	0.50
1.31-Acre Screening-Level LSTs⁴		134	978	5.31	4.31
Exceeds Thresholds?		No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2027				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963

TOTAL **12.47** **16.08** **0.53** **0.50**

Onsite	2027				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963

TOTAL **12.47** **16.08** **0.53** **0.50**

Onsite	2027				
	Off-Road	12.47	16.08	0.53	0.50
	Total	12.47	16.08	0.53	0.50

TOTAL **12.47** **16.08** **0.53** **0.50**

1.31-Acre Screening-Level LSTs⁴	134	978	5.31	4.31
Exceeds Thresholds?	No	No	No	No

P1 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2027				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	8.5816	14.578	0.4185	0.385

TOTAL **8.58** **14.58** **0.42** **0.39**

Onsite	2027				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	8.5816	14.578	0.4185	0.385

TOTAL **8.58** **14.58** **0.42** **0.39**

Onsite	2027				
	Off-Road	8.58	14.58	0.42	0.39
	Paving	0.00	0.00	0.00	0.00
	Total	8.58	14.58	0.42	0.39

TOTAL **8.58** **14.58** **0.42** **0.39**

≤1.00-Acre Screening-Level LSTs⁴	118	863	5.00	4.00
Exceeds Thresholds?	No	No	No	No

P1 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2027				
	Archit. Coating			0	0
	Off-Road	1.1455	1.8091	0.0515	0.0515
	Total	1.1455	1.8091	0.0515	0.0515

TOTAL **1.15** **1.81** **0.05** **0.05**

Onsite	2027				
	Archit. Coating			0	0

	Off-Road	1.1455	1.8091	0.0515	0.0515
	Total	1.1455	1.8091	0.0515	0.0515
TOTAL		1.15	1.81	0.05	0.05

Onsite	2027				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.15	1.81	0.05	0.05
	Total	1.15	1.81	0.05	0.05
TOTAL		1.15	1.81	0.05	0.05

≤1.00-Acre Screening-Level LSTs⁴	118	863	5.00	4.00
Exceeds Thresholds?	No	No	No	No

Phase 1 All Activities Overlap	94.57	96.13	17.76	9.85
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5.00-Acre Screening-Level LSTs⁴	270	2,193	15.99	9.00
Exceeds Thresholds?	No	No	Yes	Yes

P2 Demolition

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2030				
	Fugitive Dust			1.6974	0.257
	Off-Road	8.0078	12.9685	0.2148	0.2148
	Total	8.0078	12.9685	1.9122	0.4718
TOTAL		8.01	12.97	1.91	0.47

Onsite	2030				
	Fugitive Dust			1.6974	0.257
	Off-Road	8.0078	12.9685	0.2148	0.2148
	Total	8.0078	12.9685	1.9122	0.4718
TOTAL		8.01	12.97	1.91	0.47

Onsite	2030				
	Fugitive Dust	0.00	0.00	1.70	0.26
	Off-Road	8.01	12.97	0.21	0.21
	Total	8.01	12.97	1.91	0.47
TOTAL		8.01	12.97	1.91	0.47

1.23-Acre Screening-Level LSTs⁴	130	946	12.22	5.80
Exceeds Thresholds?	No	No	No	No

P2 Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2030				
	Fugitive Dust			2.6788	1.2843
	Off-Road	4.7401	5.9133	0.1567	0.1567
	Total	4.7401	5.9133	2.8355	1.4409
TOTAL		4.74	5.91	2.84	1.44

Onsite		2030			
	Fugitive Dust			2.6788	1.2843
	Off-Road	4.7401	5.9133	0.1567	0.1567
	Total	4.7401	5.9133	2.8355	1.4409
TOTAL		4.74	5.91	2.84	1.44

Onsite		2030			
	Fugitive Dust	0.00	0.00	2.68	1.28
	Off-Road	4.74	5.91	0.16	0.16
	Total	4.74	5.91	2.84	1.44
TOTAL		4.74	5.91	2.84	1.44

1.23-Acre Screening-Level LSTs	130	946	12.22	5.80
Exceeds Thresholds?	No	No	No	No

P2 Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2030			
	Fugitive Dust			3.0278	1.4641
	Off-Road	5.9092	7.9601	0.1859	0.1859
	Total	5.9092	7.9601	3.2137	1.65
TOTAL		5.91	7.96	3.21	1.65

Onsite		2030			
	Fugitive Dust			3.0278	1.4641
	Off-Road	5.9092	7.9601	0.1859	0.1859
	Total	5.9092	7.9601	3.2137	1.65
TOTAL		5.91	7.96	3.21	1.65

Onsite		2030			
	Fugitive Dust	0.00	0.00	3.03	1.46
	Off-Road	5.91	7.96	0.19	0.19
	Total	5.91	7.96	3.21	1.65
TOTAL		5.91	7.96	3.21	1.65

1.23-Acre Screening-Level LSTs	130	946	12.22	5.80
Exceeds Thresholds?	No	No	No	No

P2 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2030			
	Off-Road	7.1882	12.1101	0.127	0.127
	Total	7.1882	12.1101	0.127	0.127
TOTAL		7.19	12.11	0.13	0.13

Onsite		2030			
	Off-Road	7.1882	12.1101	0.127	0.127
	Total	7.1882	12.1101	0.127	0.127

TOTAL **7.19** **12.11** **0.13** **0.13**

Onsite **2030**
 Off-Road 7.19 12.11 0.13 0.13
 Total **7.19** **12.11** **0.13** **0.13**

TOTAL **7.19** **12.11** **0.13** **0.13**

≤1.00-Acre Screening-Level LSTs **118** **863** **11.36** **5.41**
 Exceeds Thresholds? No No No No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2031				
	Off-Road	7.1882	12.1101	0.127	0.127
	Total	7.1882	12.1101	0.127	0.127
TOTAL		7.19	12.11	0.13	0.13

Onsite	2031				
	Off-Road	7.1882	12.1101	0.127	0.127
	Total	7.1882	12.1101	0.127	0.127
TOTAL		7.19	12.11	0.13	0.13

Onsite **2031**
 Off-Road 7.19 12.11 0.13 0.13
 Total **7.19** **12.11** **0.13** **0.13**

TOTAL **7.19** **12.11** **0.13** **0.13**

≤1.00-Acre Screening-Level LSTs **118** **863** **11.36** **5.41**
 Exceeds Thresholds? No No No No

P2 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2031				
	Off-Road	4.3905	9.4567	0.1728	0.1728
	Paving			0	0
	Total	4.3905	9.4567	0.1728	0.1728
TOTAL		4.39	9.46	0.17	0.17

Onsite	2031				
	Off-Road	4.3905	9.4567	0.1728	0.1728
	Paving			0	0
	Total	4.3905	9.4567	0.1728	0.1728
TOTAL		4.39	9.46	0.17	0.17

Onsite **2031**
 Off-Road 4.39 9.46 0.17 0.17
 Paving 0.00 0.00 0.00 0.00
 Total **4.39** **9.46** **0.17** **0.17**

TOTAL **4.39** **9.46** **0.17** **0.17**

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P2 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2031				
	Archit. Coating			0	0
	Off-Road	0.8563	1.7977	0.0203	0.0203
	Total	0.8563	1.7977	0.0203	0.0203
TOTAL		0.86	1.80	0.02	0.02

Onsite	2031				
	Archit. Coating			0	0
	Off-Road	0.8563	1.7977	0.0203	0.0203
	Total	0.8563	1.7977	0.0203	0.0203
TOTAL		0.86	1.80	0.02	0.02

Onsite	2031				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	0.86	1.80	0.02	0.02
	Total	0.86	1.80	0.02	0.02
TOTAL		0.86	1.80	0.02	0.02

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

Phase 2 All Activities Overlap	31.09	50.21	8.28	3.88
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1.23-Acre Screening-Level LSTs⁴	130	946	12.22	5.80
Exceeds Thresholds?	No	No	No	No

P3 Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Fugitive Dust			2.27E-01	2.45E-02
	Off-Road	1.57E+00	3.88E+00	3.43E-02	3.43E-02
	Total	1.57E+00	3.88E+00	2.61E-01	5.88E-02
TOTAL		1.57	3.88	0.26	0.06

Onsite	2038				
	Fugitive Dust			0.2267	0.0245
	Off-Road	1.574	3.8815	0.0343	0.0343
	Total	1.574	3.8815	0.261	0.0588
TOTAL		1.57	3.88	0.26	0.06

Onsite	2038				
	Fugitive Dust	0.00	0.00	0.23	0.02

	Off-Road	1.57	3.88	0.03	0.03
	Total	1.57	3.88	0.26	0.06
TOTAL		1.57	3.88	0.26	0.06

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P3 Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Fugitive Dust			2.27E+00	1.10E+00
	Off-Road	2.87E+00	4.85E+00	8.74E-02	8.74E-02
	Total	2.87E+00	4.85E+00	2.36E+00	1.19E+00
TOTAL		2.87	4.85	2.36	1.19

Onsite	2038				
	Fugitive Dust			2.2709	1.0981
	Off-Road	2.873	4.8534	0.0874	0.0874
	Total	2.873	4.8534	2.3583	1.1855
TOTAL		2.87	4.85	2.36	1.19

Onsite	2038				
	Fugitive Dust	0.00	0.00	2.27	1.10
	Off-Road	2.87	4.85	0.09	0.09
	Total	2.87	4.85	2.36	1.19
TOTAL		2.87	4.85	2.36	1.19

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P3 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Off-Road	2.9031	7.1465	4.23E-02	4.23E-02
	Total	2.9031	7.1465	4.23E-02	4.23E-02
TOTAL		2.90	7.15	0.04	0.04

Onsite	2038				
	Off-Road	2.9031	7.1465	0.0423	0.0423
	Total	2.9031	7.1465	0.0423	0.0423
TOTAL		2.90	7.15	0.04	0.04

Onsite	2038				
	Off-Road	2.90	7.15	0.04	0.04
	Total	2.90	7.15	0.04	0.04
TOTAL		2.90	7.15	0.04	0.04

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
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Exceeds Thresholds?	No	No	No	No
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P3 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Off-Road	3.4702	7.4752	0.1067	0.1067
	Paving			0	0
	Total	3.4702	7.4752	0.1067	0.1067
TOTAL		3.47	7.48	0.11	0.11

Onsite	2038				
	Off-Road	3.4702	7.4752	0.1067	0.1067
	Paving			0	0
	Total	3.4702	7.4752	0.1067	0.1067
TOTAL		3.47	7.48	0.11	0.11

Onsite	2038				
	Off-Road	3.47	7.48	0.11	0.11
	Paving	0.00	0.00	0.00	0.00
	Total	3.47	7.48	0.11	0.11
TOTAL		3.47	7.48	0.11	0.11

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P3 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Archit. Coating			0	0
	Off-Road	0.7577	1.7943	9.90E-03	9.90E-03
	Total	0.7577	1.7943	9.90E-03	9.90E-03
TOTAL		0.76	1.79	0.01	0.01

Onsite	2038				
	Archit. Coating			0	0
	Off-Road	0.7577	1.7943	9.90E-03	9.90E-03
	Total	0.7577	1.7943	9.90E-03	9.90E-03
TOTAL		0.76	1.79	0.01	0.01

Onsite	2038				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	0.76	1.79	0.01	0.01
	Total	0.76	1.79	0.01	0.01
TOTAL		0.76	1.79	0.01	0.01

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

Phase 3 All Activities Overlap	11.58	25.15	2.78	1.40
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≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Demolition

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				
	Fugitive Dust			1.2149	0.1839
	Off-Road	3.0819	7.4089	0.0355	0.0355
	Total	3.0819	7.4089	1.2504	0.2194
TOTAL		3.08	7.41	1.25	0.22

Onsite	2042				
	Fugitive Dust			1.2149	0.1839
	Off-Road	3.0819	7.4089	0.0355	0.0355
	Total	3.0819	7.4089	1.2504	0.2194
TOTAL		3.08	7.41	1.25	0.22

Onsite	2042				
	Fugitive Dust	0.00	0.00	1.21	0.18
	Off-Road	3.08	7.41	0.04	0.04
	Total	3.08	7.41	1.25	0.22
TOTAL		3.08	7.41	1.25	0.22

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				
	Fugitive Dust			0.2267	0.0245
	Off-Road	1.4268	3.876	0.0277	0.0277
	Total	1.4268	3.876	0.2544	0.0522
TOTAL		1.43	3.88	0.25	0.05

Onsite	2042				
	Fugitive Dust			0.2267	0.0245
	Off-Road	1.4268	3.876	0.0277	0.0277
	Total	1.4268	3.876	0.2544	0.0522
TOTAL		1.43	3.88	0.25	0.05

Onsite	2042				
	Fugitive Dust	0.00	0.00	0.23	0.02
	Off-Road	1.43	3.88	0.03	0.03
	Total	1.43	3.88	0.25	0.05
TOTAL		1.43	3.88	0.25	0.05

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
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Exceeds Thresholds?	No	No	No	No
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P4 Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				
	Fugitive Dust			2.2709	1.0981
	Off-Road	2.2462	4.801	0.0626	0.0626
	Total	2.2462	4.801	2.3334	1.1606
TOTAL		2.25	4.80	2.33	1.16

Onsite	2042				
	Fugitive Dust			2.2709	1.0981
	Off-Road	2.2462	4.801	0.0626	0.0626
	Total	2.2462	4.801	2.3334	1.1606
TOTAL		2.25	4.80	2.33	1.16

Onsite	2042				
	Fugitive Dust	0.00	0.00	2.27	1.10
	Off-Road	2.25	4.80	0.06	0.06
	Total	2.25	4.80	2.33	1.16
TOTAL		2.25	4.80	2.33	1.16

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				
	Off-Road	2.7853	7.1504	0.0355	0.0355
	Total	2.7853	7.1504	0.0355	0.0355
TOTAL		2.79	7.15	0.04	0.04

Onsite	2042				
	Off-Road	2.7853	7.1504	0.0355	0.0355
	Total	2.7853	7.1504	0.0355	0.0355
TOTAL		2.79	7.15	0.04	0.04

Onsite	2042				
	Off-Road	2.79	7.15	0.04	0.04
	Total	2.79	7.15	0.04	0.04
TOTAL		2.79	7.15	0.04	0.04

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				

	Off-Road	3.1337	7.4736	0.0844	0.0844
	Paving			0	0
	Total	3.1337	7.4736	0.0844	0.0844
TOTAL		3.13	7.47	0.08	0.08

Onsite		2042			
	Off-Road	3.1337	7.4736	0.0844	0.0844
	Paving			0	0
	Total	3.1337	7.4736	0.0844	0.0844
TOTAL		3.13	7.47	0.08	0.08

Onsite		2042			
	Off-Road	3.13	7.47	0.08	0.08
	Paving	0.00	0.00	0.00	0.00
	Total	3.13	7.47	0.08	0.08
TOTAL		3.13	7.47	0.08	0.08

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2042			
	Archit. Coating			0	0
	Off-Road	0.727	1.7923	7.43E-03	7.43E-03
	Total	0.727	1.7923	7.43E-03	7.43E-03
TOTAL		0.73	1.79	0.01	0.01

Onsite		2042			
	Archit. Coating			0	0
	Off-Road	0.727	1.7923	7.43E-03	7.43E-03
	Total	0.727	1.7923	7.43E-03	7.43E-03
TOTAL		0.73	1.79	0.01	0.01

Onsite		2042			
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	0.73	1.79	0.01	0.01
	Total	0.73	1.79	0.01	0.01
TOTAL		0.73	1.79	0.01	0.01

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

Phase 4 All Activities Overlap	13.40	32.50	3.97	1.56
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≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P5 Demolition						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2049				
	Fugitive Dust				1.6759	0.2538
	Off-Road		5.3064	18.5788	0.1629	0.1629
	Total		5.3064	18.5788	1.8388	0.4166
TOTAL			5.31	18.58	1.84	0.42
Onsite		2049				
	Fugitive Dust				1.6759	0.2538
	Off-Road		5.3064	18.5788	0.1629	0.1629
	Total		5.3064	18.5788	1.8388	0.4166
TOTAL			5.31	18.58	1.84	0.42
Onsite		2049				
	Fugitive Dust		0.00	0.00	1.68	0.25
	Off-Road		5.31	18.58	0.16	0.16
	Total		5.31	18.58	1.84	0.42
TOTAL			5.31	18.58	1.84	0.42
2.50-Acre Screening-Level LSTs⁴			187	1,392	7.66	5.67
Exceeds Thresholds?			No	No	No	No

P5 Site Preparation						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2049				
	Fugitive Dust				8.4034	4.3188
	Off-Road		7.9943	15.7797	0.2026	0.2026
	Total		7.9943	15.7797	8.6059	4.5214
TOTAL			7.99	15.78	8.61	4.52
Onsite		2049				
	Fugitive Dust				8.4034	4.3188
	Off-Road		7.9943	15.7797	0.2026	0.2026
	Total		7.9943	15.7797	8.6059	4.5214
TOTAL			7.99	15.78	8.61	4.52
Onsite		2049				
	Fugitive Dust		0.00	0.00	8.40	4.32
	Off-Road		7.99	15.78	0.20	0.20
	Total		7.99	15.78	8.61	4.52
TOTAL			7.99	15.78	8.61	4.52
3.50-Acre Screening-Level LSTs⁴			220	1,712	10.99	7.00
Exceeds Thresholds?			No	No	No	No

P5 Grading						
			NOx	CO	PM10 Total	PM2.5 Total

Onsite		2049			
	Fugitive Dust			3.9345	1.562
	Off-Road	7.3885	22.3122	0.225	0.225
	Total	7.3885	22.3122	4.1596	1.787
TOTAL		7.39	22.31	4.16	1.79

Onsite		2049			
	Fugitive Dust			3.9345	1.562
	Off-Road	7.3885	22.3122	0.225	0.225
	Total	7.3885	22.3122	4.1596	1.787
TOTAL		7.39	22.31	4.16	1.79

Onsite		2049			
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	7.39	22.31	0.23	0.23
	Total	7.39	22.31	4.16	1.79
TOTAL		7.39	22.31	4.16	1.79

4.00-Acre Screening-Level LSTs⁴		237	1,872	12.66	7.67
Exceeds Thresholds?		No	No	No	No

P5 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2049			
	Off-Road	6.8903	16.1185	0.0737	0.0737
	Total	6.8903	16.1185	0.0737	0.0737
TOTAL		6.89	16.12	0.07	0.07

Onsite		2049			
	Off-Road	6.8903	16.1185	0.0737	0.0737
	Total	6.8903	16.1185	0.0737	0.0737
TOTAL		6.89	16.12	0.07	0.07

Onsite		2049			
	Off-Road	6.89	16.12	0.07	0.07
	Total	6.89	16.12	0.07	0.07
TOTAL		6.89	16.12	0.07	0.07

1.31-Acre Screening-Level LSTs		134	978	5.31	4.31
Exceeds Thresholds?		No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2050			
	Off-Road	6.8903	16.1185	0.0737	0.0737
	Total	6.8903	16.1185	0.0737	0.0737
TOTAL		6.89	16.12	0.07	0.07

Onsite		2050			
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	Off-Road	6.8903	16.1185	0.0737	0.0737
	Total	6.8903	16.1185	0.0737	0.0737
TOTAL		6.89	16.12	0.07	0.07

Onsite	2050				
	Off-Road	6.89	16.12	0.07	0.07
	Total	6.89	16.12	0.07	0.07
TOTAL		6.89	16.12	0.07	0.07

1.31-Acre Screening-Level LSTs	134	978	5.31	4.31
Exceeds Thresholds?	No	No	No	No

P5 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2050				
	Off-Road	3.6566	15.8177	0.1164	0.1164
	Paving			0	0
	Total	3.6566	15.8177	0.1164	0.1164
TOTAL		3.66	15.82	0.12	0.12

Onsite	2050				
	Off-Road	3.6566	15.8177	0.1164	0.1164
	Paving			0	0
	Total	3.6566	15.8177	0.1164	0.1164
TOTAL		3.66	15.82	0.12	0.12

Onsite	2050				
	Off-Road	3.66	15.82	0.12	0.12
	Paving	0.00	0.00	0.00	0.00
	Total	3.66	15.82	0.12	0.12
TOTAL		3.66	15.82	0.12	0.12

≤1.00-Acre Screening-Level LSTs	118	863	5.00	4.00
Exceeds Thresholds?	No	No	No	No

P5 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2050				
	Archit. Coating			0	0
	Off-Road	0.727	1.7923	7.43E-03	7.43E-03
	Total	0.727	1.7923	7.43E-03	7.43E-03
TOTAL		0.73	1.79	0.01	0.01

Onsite	2050				
	Archit. Coating			0	0
	Off-Road	0.727	1.7923	7.43E-03	7.43E-03
	Total	0.727	1.7923	7.43E-03	7.43E-03
TOTAL		0.73	1.79	0.01	0.01

Onsite		2050				
	Archit. Coating	0.00	0.00	0.00	0.00	
	Off-Road	0.73	1.79	0.01	0.01	
	Total	0.73	1.79	0.01	0.01	
TOTAL		0.73	1.79	0.01	0.01	

≤1.00-Acre Screening-Level LSTs	118	863	5.00	4.00
Exceeds Thresholds?	No	No	No	No

Phase 5 All Activities Overlap	31.96	90.40	14.80	6.92
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5.00-Acre Screening-Level LSTs⁴	270	2,193	15.99	9.00
Exceeds Thresholds?	No	No	No	No

Localized Construction Emissions Worksheet - Mitigated

*CalEEMod, Version 2020.4.0

P1 Demolition						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2026				
	Fugitive Dust				1.3503	0.2044
	Off-Road		19.1966	19.4184	0.8528	0.792
	Total		19.1966	19.4184	2.203	0.9964
TOTAL			19.20	19.42	2.20	1.00
Onsite		2026				
	Fugitive Dust				1.3503	0.2044
	Off-Road		19.1966	19.4184	0.8528	0.792
	Total		19.1966	19.4184	2.203	0.9964
TOTAL			19.20	19.42	2.20	1.00
Onsite		2026				
	Fugitive Dust		0.00	0.00	1.35	0.20
	Off-Road		19.20	19.42	0.85	0.79
	Total		19.20	19.42	2.20	1.00
TOTAL			19.20	19.42	2.20	1.00
≤1.00-Acre Screening-Level LSTs⁴			118	863	5.00	4.00
Exceeds Thresholds?			No	No	No	No
Site Preparation						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2026				
	Fugitive Dust				7.2829	3.743
	Off-Road		12.162	22.96	0.0621	0.0621
	Total		12.162	22.96	7.345	3.805
TOTAL			12.16	22.96	7.35	3.81
Onsite		2026				
	Fugitive Dust				7.2829	3.743
	Off-Road		12.162	22.96	0.0621	0.0621
	Total		12.162	22.96	7.345	3.805
TOTAL			12.16	22.96	7.35	3.81
Onsite		2026				
	Fugitive Dust		0.00	0.00	7.28	3.74
	Off-Road		12.16	22.96	0.06	0.06
	Total		12.16	22.96	7.35	3.81
TOTAL			12.16	22.96	7.35	3.81
3.50-Acre Screening-Level LSTs⁴			220	1,712	10.99	7.00
Exceeds Thresholds?			No	No	No	No

P1 Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2026				
	Fugitive Dust			3.4099	1.3537
	Off-Road	19.2707	36.7226	0.1015	0.1015
	Total	19.2707	36.7226	3.5115	1.4553
TOTAL		19.27	36.72	3.51	1.46
Onsite	2026				
	Fugitive Dust			3.4099	1.3537
	Off-Road	19.2707	36.7226	0.1015	0.1015
	Total	19.2707	36.7226	3.5115	1.4553
TOTAL		19.27	36.72	3.51	1.46
Onsite	2026				
	Fugitive Dust	0.00	0.00	3.41	1.35
	Off-Road	19.27	36.72	0.10	0.10
	Total	19.27	36.72	3.51	1.46
TOTAL		19.27	36.72	3.51	1.46
4.00-Acre Screening-Level LSTs⁴		237	1,872	12.66	7.67
Exceeds Thresholds?		No	No	No	No

P1 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2026				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963
TOTAL		12.47	16.08	0.53	0.50
Onsite	2026				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963
TOTAL		12.47	16.08	0.53	0.50
Onsite	2026				
	Off-Road	12.47	16.08	0.53	0.50
	Total	12.47	16.08	0.53	0.50
TOTAL		12.47	16.08	0.53	0.50
1.31-Acre Screening-Level LSTs⁴		134	978	5.31	4.31
Exceeds Thresholds?		No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2027				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963

TOTAL **12.47** **16.08** **0.53** **0.50**

Onsite	2027				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963

TOTAL **12.47** **16.08** **0.53** **0.50**

Onsite	2027				
	Off-Road	12.47	16.08	0.53	0.50
	Total	12.47	16.08	0.53	0.50

TOTAL **12.47** **16.08** **0.53** **0.50**

1.31-Acre Screening-Level LSTs⁴	134	978	5.31	4.31
Exceeds Thresholds?	No	No	No	No

P1 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2027				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	8.5816	14.578	0.4185	0.385

TOTAL **8.58** **14.58** **0.42** **0.39**

Onsite	2027				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	8.5816	14.578	0.4185	0.385

TOTAL **8.58** **14.58** **0.42** **0.39**

Onsite	2027				
	Off-Road	8.58	14.58	0.42	0.39
	Paving	0.00	0.00	0.00	0.00
	Total	8.58	14.58	0.42	0.39

TOTAL **8.58** **14.58** **0.42** **0.39**

≤1.00-Acre Screening-Level LSTs⁴	118	863	5.00	4.00
Exceeds Thresholds?	No	No	No	No

P1 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2027				
	Archit. Coating			0	0
	Off-Road	1.1455	1.8091	0.0515	0.0515
	Total	1.1455	1.8091	0.0515	0.0515

TOTAL **1.15** **1.81** **0.05** **0.05**

Onsite	2027				
	Archit. Coating			0	0

	Off-Road	1.1455	1.8091	0.0515	0.0515
	Total	1.1455	1.8091	0.0515	0.0515
TOTAL		1.15	1.81	0.05	0.05

Onsite	2027				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.15	1.81	0.05	0.05
	Total	1.15	1.81	0.05	0.05
TOTAL		1.15	1.81	0.05	0.05

≤1.00-Acre Screening-Level LSTs⁴	118	863	5.00	4.00
Exceeds Thresholds?	No	No	No	No

Phase 1 All Activities Overlap	72.83	111.57	14.06	7.19
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5.00-Acre Screening-Level LSTs⁴	270	2,193	15.99	9.00
Exceeds Thresholds?	No	No	No	No

P2 Demolition

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2030				
	Fugitive Dust			1.6974	0.257
	Off-Road	8.0078	12.9685	0.2148	0.2148
	Total	8.0078	12.9685	1.9122	0.4718
TOTAL		8.01	12.97	1.91	0.47

Onsite	2030				
	Fugitive Dust			1.6974	0.257
	Off-Road	8.0078	12.9685	0.2148	0.2148
	Total	8.0078	12.9685	1.9122	0.4718
TOTAL		8.01	12.97	1.91	0.47

Onsite	2030				
	Fugitive Dust	0.00	0.00	1.70	0.26
	Off-Road	8.01	12.97	0.21	0.21
	Total	8.01	12.97	1.91	0.47
TOTAL		8.01	12.97	1.91	0.47

1.23-Acre Screening-Level LSTs⁴	130	946	12.22	5.80
Exceeds Thresholds?	No	No	No	No

P2 Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2030				
	Fugitive Dust			2.6788	1.2843
	Off-Road	4.7401	5.9133	0.1567	0.1567
	Total	4.7401	5.9133	2.8355	1.4409
TOTAL		4.74	5.91	2.84	1.44

Onsite		2030			
	Fugitive Dust			2.6788	1.2843
	Off-Road	4.7401	5.9133	0.1567	0.1567
	Total	4.7401	5.9133	2.8355	1.4409
TOTAL		4.74	5.91	2.84	1.44

Onsite		2030			
	Fugitive Dust	0.00	0.00	2.68	1.28
	Off-Road	4.74	5.91	0.16	0.16
	Total	4.74	5.91	2.84	1.44
TOTAL		4.74	5.91	2.84	1.44

1.23-Acre Screening-Level LSTs	130	946	12.22	5.80
Exceeds Thresholds?	No	No	No	No

P2 Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2030			
	Fugitive Dust			3.0278	1.4641
	Off-Road	5.9092	7.9601	0.1859	0.1859
	Total	5.9092	7.9601	3.2137	1.65
TOTAL		5.91	7.96	3.21	1.65

Onsite		2030			
	Fugitive Dust			3.0278	1.4641
	Off-Road	5.9092	7.9601	0.1859	0.1859
	Total	5.9092	7.9601	3.2137	1.65
TOTAL		5.91	7.96	3.21	1.65

Onsite		2030			
	Fugitive Dust	0.00	0.00	3.03	1.46
	Off-Road	5.91	7.96	0.19	0.19
	Total	5.91	7.96	3.21	1.65
TOTAL		5.91	7.96	3.21	1.65

1.23-Acre Screening-Level LSTs	130	946	12.22	5.80
Exceeds Thresholds?	No	No	No	No

P2 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2030			
	Off-Road	7.1882	12.1101	0.127	0.127
	Total	7.1882	12.1101	0.127	0.127
TOTAL		7.19	12.11	0.13	0.13

Onsite		2030			
	Off-Road	7.1882	12.1101	0.127	0.127
	Total	7.1882	12.1101	0.127	0.127

TOTAL **7.19** **12.11** **0.13** **0.13**

Onsite **2030**
 Off-Road 7.19 12.11 0.13 0.13
 Total **7.19** **12.11** **0.13** **0.13**

TOTAL **7.19** **12.11** **0.13** **0.13**

≤1.00-Acre Screening-Level LSTs **118** **863** **11.36** **5.41**
 Exceeds Thresholds? No No No No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2031				
	Off-Road	7.1882	12.1101	0.127	0.127
	Total	7.1882	12.1101	0.127	0.127
TOTAL		7.19	12.11	0.13	0.13

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2031				
	Off-Road	7.1882	12.1101	0.127	0.127
	Total	7.1882	12.1101	0.127	0.127
TOTAL		7.19	12.11	0.13	0.13

Onsite **2031**
 Off-Road 7.19 12.11 0.13 0.13
 Total **7.19** **12.11** **0.13** **0.13**

TOTAL **7.19** **12.11** **0.13** **0.13**

≤1.00-Acre Screening-Level LSTs **118** **863** **11.36** **5.41**
 Exceeds Thresholds? No No No No

P2 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2031				
	Off-Road	4.3905	9.4567	0.1728	0.1728
	Paving			0	0
	Total	4.3905	9.4567	0.1728	0.1728
TOTAL		4.39	9.46	0.17	0.17

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2031				
	Off-Road	4.3905	9.4567	0.1728	0.1728
	Paving			0	0
	Total	4.3905	9.4567	0.1728	0.1728
TOTAL		4.39	9.46	0.17	0.17

Onsite **2031**
 Off-Road 4.39 9.46 0.17 0.17
 Paving 0.00 0.00 0.00 0.00
 Total **4.39** **9.46** **0.17** **0.17**

TOTAL **4.39** **9.46** **0.17** **0.17**

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P2 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2031				
	Archit. Coating			0	0
	Off-Road	0.8563	1.7977	0.0203	0.0203
	Total	0.8563	1.7977	0.0203	0.0203
TOTAL		0.86	1.80	0.02	0.02

Onsite	2031				
	Archit. Coating			0	0
	Off-Road	0.8563	1.7977	0.0203	0.0203
	Total	0.8563	1.7977	0.0203	0.0203
TOTAL		0.86	1.80	0.02	0.02

Onsite	2031				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	0.86	1.80	0.02	0.02
	Total	0.86	1.80	0.02	0.02
TOTAL		0.86	1.80	0.02	0.02

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

Phase 2 All Activities Overlap	31.09	50.21	8.28	3.88
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1.23-Acre Screening-Level LSTs⁴	130	946	12.22	5.80
Exceeds Thresholds?	No	No	No	No

P3 Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Fugitive Dust			2.27E-01	2.45E-02
	Off-Road	1.57E+00	3.88E+00	3.43E-02	3.43E-02
	Total	1.57E+00	3.88E+00	2.61E-01	5.88E-02
TOTAL		1.57	3.88	0.26	0.06

Onsite	2038				
	Fugitive Dust			0.2267	0.0245
	Off-Road	1.574	3.8815	0.0343	0.0343
	Total	1.574	3.8815	0.261	0.0588
TOTAL		1.57	3.88	0.26	0.06

Onsite	2038				
	Fugitive Dust	0.00	0.00	0.23	0.02

	Off-Road	1.57	3.88	0.03	0.03
	Total	1.57	3.88	0.26	0.06
TOTAL		1.57	3.88	0.26	0.06

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P3 Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Fugitive Dust			2.27E+00	1.10E+00
	Off-Road	2.87E+00	4.85E+00	8.74E-02	8.74E-02
	Total	2.87E+00	4.85E+00	2.36E+00	1.19E+00
TOTAL		2.87	4.85	2.36	1.19

Onsite	2038				
	Fugitive Dust			2.2709	1.0981
	Off-Road	2.873	4.8534	0.0874	0.0874
	Total	2.873	4.8534	2.3583	1.1855
TOTAL		2.87	4.85	2.36	1.19

Onsite	2038				
	Fugitive Dust	0.00	0.00	2.27	1.10
	Off-Road	2.87	4.85	0.09	0.09
	Total	2.87	4.85	2.36	1.19
TOTAL		2.87	4.85	2.36	1.19

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P3 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Off-Road	2.9031	7.1465	4.23E-02	4.23E-02
	Total	2.9031	7.1465	4.23E-02	4.23E-02
TOTAL		2.90	7.15	0.04	0.04

Onsite	2038				
	Off-Road	2.9031	7.1465	0.0423	0.0423
	Total	2.9031	7.1465	0.0423	0.0423
TOTAL		2.90	7.15	0.04	0.04

Onsite	2038				
	Off-Road	2.90	7.15	0.04	0.04
	Total	2.90	7.15	0.04	0.04
TOTAL		2.90	7.15	0.04	0.04

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
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Exceeds Thresholds?	No	No	No	No
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P3 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Off-Road	3.4702	7.4752	0.1067	0.1067
	Paving			0	0
	Total	3.4702	7.4752	0.1067	0.1067
TOTAL		3.47	7.48	0.11	0.11

Onsite	2038				
	Off-Road	3.4702	7.4752	0.1067	0.1067
	Paving			0	0
	Total	3.4702	7.4752	0.1067	0.1067
TOTAL		3.47	7.48	0.11	0.11

Onsite	2038				
	Off-Road	3.47	7.48	0.11	0.11
	Paving	0.00	0.00	0.00	0.00
	Total	3.47	7.48	0.11	0.11
TOTAL		3.47	7.48	0.11	0.11

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P3 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2038				
	Archit. Coating			0	0
	Off-Road	0.7577	1.7943	9.90E-03	9.90E-03
	Total	0.7577	1.7943	9.90E-03	9.90E-03
TOTAL		0.76	1.79	0.01	0.01

Onsite	2038				
	Archit. Coating			0	0
	Off-Road	0.7577	1.7943	9.90E-03	9.90E-03
	Total	0.7577	1.7943	9.90E-03	9.90E-03
TOTAL		0.76	1.79	0.01	0.01

Onsite	2038				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	0.76	1.79	0.01	0.01
	Total	0.76	1.79	0.01	0.01
TOTAL		0.76	1.79	0.01	0.01

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

Phase 3 All Activities Overlap	11.58	25.15	2.78	1.40
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≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Demolition

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				
	Fugitive Dust			1.2149	0.1839
	Off-Road	3.0819	7.4089	0.0355	0.0355
	Total	3.0819	7.4089	1.2504	0.2194
TOTAL		3.08	7.41	1.25	0.22

Onsite	2042				
	Fugitive Dust			1.2149	0.1839
	Off-Road	3.0819	7.4089	0.0355	0.0355
	Total	3.0819	7.4089	1.2504	0.2194
TOTAL		3.08	7.41	1.25	0.22

Onsite	2042				
	Fugitive Dust	0.00	0.00	1.21	0.18
	Off-Road	3.08	7.41	0.04	0.04
	Total	3.08	7.41	1.25	0.22
TOTAL		3.08	7.41	1.25	0.22

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				
	Fugitive Dust			0.2267	0.0245
	Off-Road	1.4268	3.876	0.0277	0.0277
	Total	1.4268	3.876	0.2544	0.0522
TOTAL		1.43	3.88	0.25	0.05

Onsite	2042				
	Fugitive Dust			0.2267	0.0245
	Off-Road	1.4268	3.876	0.0277	0.0277
	Total	1.4268	3.876	0.2544	0.0522
TOTAL		1.43	3.88	0.25	0.05

Onsite	2042				
	Fugitive Dust	0.00	0.00	0.23	0.02
	Off-Road	1.43	3.88	0.03	0.03
	Total	1.43	3.88	0.25	0.05
TOTAL		1.43	3.88	0.25	0.05

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
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Exceeds Thresholds?	No	No	No	No
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P4 Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				
	Fugitive Dust			2.2709	1.0981
	Off-Road	2.2462	4.801	0.0626	0.0626
	Total	2.2462	4.801	2.3334	1.1606
TOTAL		2.25	4.80	2.33	1.16

Onsite	2042				
	Fugitive Dust			2.2709	1.0981
	Off-Road	2.2462	4.801	0.0626	0.0626
	Total	2.2462	4.801	2.3334	1.1606
TOTAL		2.25	4.80	2.33	1.16

Onsite	2042				
	Fugitive Dust	0.00	0.00	2.27	1.10
	Off-Road	2.25	4.80	0.06	0.06
	Total	2.25	4.80	2.33	1.16
TOTAL		2.25	4.80	2.33	1.16

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				
	Off-Road	2.7853	7.1504	0.0355	0.0355
	Total	2.7853	7.1504	0.0355	0.0355
TOTAL		2.79	7.15	0.04	0.04

Onsite	2042				
	Off-Road	2.7853	7.1504	0.0355	0.0355
	Total	2.7853	7.1504	0.0355	0.0355
TOTAL		2.79	7.15	0.04	0.04

Onsite	2042				
	Off-Road	2.79	7.15	0.04	0.04
	Total	2.79	7.15	0.04	0.04
TOTAL		2.79	7.15	0.04	0.04

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2042				

	Off-Road	3.1337	7.4736	0.0844	0.0844
	Paving			0	0
	Total	3.1337	7.4736	0.0844	0.0844
TOTAL		3.13	7.47	0.08	0.08

Onsite		2042			
	Off-Road	3.1337	7.4736	0.0844	0.0844
	Paving			0	0
	Total	3.1337	7.4736	0.0844	0.0844
TOTAL		3.13	7.47	0.08	0.08

Onsite		2042			
	Off-Road	3.13	7.47	0.08	0.08
	Paving	0.00	0.00	0.00	0.00
	Total	3.13	7.47	0.08	0.08
TOTAL		3.13	7.47	0.08	0.08

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P4 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2042			
	Archit. Coating			0	0
	Off-Road	0.727	1.7923	7.43E-03	7.43E-03
	Total	0.727	1.7923	7.43E-03	7.43E-03
TOTAL		0.73	1.79	0.01	0.01

Onsite		2042			
	Archit. Coating			0	0
	Off-Road	0.727	1.7923	7.43E-03	7.43E-03
	Total	0.727	1.7923	7.43E-03	7.43E-03
TOTAL		0.73	1.79	0.01	0.01

Onsite		2042			
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	0.73	1.79	0.01	0.01
	Total	0.73	1.79	0.01	0.01
TOTAL		0.73	1.79	0.01	0.01

≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

Phase 4 All Activities Overlap	13.40	32.50	3.97	1.56
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≤1.00-Acre Screening-Level LSTs	118	863	11.36	5.41
Exceeds Thresholds?	No	No	No	No

P5 Demolition						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2049				
	Fugitive Dust				1.6759	0.2538
	Off-Road		5.3064	18.5788	0.1629	0.1629
	Total		5.3064	18.5788	1.8388	0.4166
TOTAL			5.31	18.58	1.84	0.42
Onsite		2049				
	Fugitive Dust				1.6759	0.2538
	Off-Road		5.3064	18.5788	0.1629	0.1629
	Total		5.3064	18.5788	1.8388	0.4166
TOTAL			5.31	18.58	1.84	0.42
Onsite		2049				
	Fugitive Dust		0.00	0.00	1.68	0.25
	Off-Road		5.31	18.58	0.16	0.16
	Total		5.31	18.58	1.84	0.42
TOTAL			5.31	18.58	1.84	0.42
2.50-Acre Screening-Level LSTs⁴			187	1,392	7.66	5.67
Exceeds Thresholds?			No	No	No	No

P5 Site Preparation						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2049				
	Fugitive Dust				8.4034	4.3188
	Off-Road		7.9943	15.7797	0.2026	0.2026
	Total		7.9943	15.7797	8.6059	4.5214
TOTAL			7.99	15.78	8.61	4.52
Onsite		2049				
	Fugitive Dust				8.4034	4.3188
	Off-Road		7.9943	15.7797	0.2026	0.2026
	Total		7.9943	15.7797	8.6059	4.5214
TOTAL			7.99	15.78	8.61	4.52
Onsite		2049				
	Fugitive Dust		0.00	0.00	8.40	4.32
	Off-Road		7.99	15.78	0.20	0.20
	Total		7.99	15.78	8.61	4.52
TOTAL			7.99	15.78	8.61	4.52
3.50-Acre Screening-Level LSTs⁴			220	1,712	10.99	7.00
Exceeds Thresholds?			No	No	No	No

P5 Grading						
			NOx	CO	PM10 Total	PM2.5 Total

Onsite		2049			
	Fugitive Dust			3.9345	1.562
	Off-Road	7.3885	22.3122	0.225	0.225
	Total	7.3885	22.3122	4.1596	1.787
TOTAL		7.39	22.31	4.16	1.79

Onsite		2049			
	Fugitive Dust			3.9345	1.562
	Off-Road	7.3885	22.3122	0.225	0.225
	Total	7.3885	22.3122	4.1596	1.787
TOTAL		7.39	22.31	4.16	1.79

Onsite		2049			
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	7.39	22.31	0.23	0.23
	Total	7.39	22.31	4.16	1.79
TOTAL		7.39	22.31	4.16	1.79

4.00-Acre Screening-Level LSTs⁴		237	1,872	12.66	7.67
Exceeds Thresholds?		No	No	No	No

P5 Building Construction

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2049			
	Off-Road	6.8903	16.1185	0.0737	0.0737
	Total	6.8903	16.1185	0.0737	0.0737
TOTAL		6.89	16.12	0.07	0.07

Onsite		2049			
	Off-Road	6.8903	16.1185	0.0737	0.0737
	Total	6.8903	16.1185	0.0737	0.0737
TOTAL		6.89	16.12	0.07	0.07

Onsite		2049			
	Off-Road	6.89	16.12	0.07	0.07
	Total	6.89	16.12	0.07	0.07
TOTAL		6.89	16.12	0.07	0.07

1.31-Acre Screening-Level LSTs		134	978	5.31	4.31
Exceeds Thresholds?		No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		2050			
	Off-Road	6.8903	16.1185	0.0737	0.0737
	Total	6.8903	16.1185	0.0737	0.0737
TOTAL		6.89	16.12	0.07	0.07

Onsite		2050			
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	Off-Road	6.8903	16.1185	0.0737	0.0737
	Total	6.8903	16.1185	0.0737	0.0737
TOTAL		6.89	16.12	0.07	0.07
Onsite	2050				
	Off-Road	6.89	16.12	0.07	0.07
	Total	6.89	16.12	0.07	0.07
TOTAL		6.89	16.12	0.07	0.07
1.31-Acre Screening-Level LSTs		134	978	5.31	4.31
Exceeds Thresholds?		No	No	No	No

P5 Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2050				
	Off-Road	3.6566	15.8177	0.1164	0.1164
	Paving			0	0
	Total	3.6566	15.8177	0.1164	0.1164
TOTAL		3.66	15.82	0.12	0.12
Onsite	2050				
	Off-Road	3.6566	15.8177	0.1164	0.1164
	Paving			0	0
	Total	3.6566	15.8177	0.1164	0.1164
TOTAL		3.66	15.82	0.12	0.12
Onsite	2050				
	Off-Road	3.66	15.82	0.12	0.12
	Paving	0.00	0.00	0.00	0.00
	Total	3.66	15.82	0.12	0.12
TOTAL		3.66	15.82	0.12	0.12
≤1.00-Acre Screening-Level LSTs		118	863	5.00	4.00
Exceeds Thresholds?		No	No	No	No

P5 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	2050				
	Archit. Coating			0	0
	Off-Road	0.727	1.7923	7.43E-03	7.43E-03
	Total	0.727	1.7923	7.43E-03	7.43E-03
TOTAL		0.73	1.79	0.01	0.01
Onsite	2050				
	Archit. Coating			0	0
	Off-Road	0.727	1.7923	7.43E-03	7.43E-03
	Total	0.727	1.7923	7.43E-03	7.43E-03
TOTAL		0.73	1.79	0.01	0.01

Onsite		2050				
	Archit. Coating		0.00	0.00	0.00	0.00
	Off-Road		0.73	1.79	0.01	0.01
	Total		0.73	1.79	0.01	0.01
TOTAL			0.73	1.79	0.01	0.01

≤1.00-Acre Screening-Level LSTs		118	863	5.00	4.00
Exceeds Thresholds?		No	No	No	No

Phase 5 All Activities Overlap	31.96	90.40	14.80	6.92
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5.00-Acre Screening-Level LSTs⁴	270	2,193	15.99	9.00
Exceeds Thresholds?	No	No	No	No

Regional Operation Emissions Worksheet*

*CalEEMod, Version 2020.4.0

Existing Baseline Year 2021

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	13.1521	5.50E-04	0.0603	0.00E+00	2.20E-04	2.20E-04
Energy	0.2918	2.6523	2.228	0.0159	0.2016	0.2016
Mobile	70.4144	63.8952	671.4847	1.2132	120.7798	32.6031
Total	83.8582	66.5481	673.773	1.2291	120.9816	32.8049

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	13.1521	5.50E-04	0.0603	0.00E+00	2.20E-04	2.20E-04
Energy	0.2918	2.6523	2.228	0.0159	0.2016	0.2016
Mobile	61.3647	67.9235	595.1865	1.1124	120.7799	32.6031
Total	74.8085	70.5764	597.4748	1.1283	120.9817	32.8049

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	13.152100	0.000550	0.060300	0.000000	0.000220	0.000220
Energy	0.291800	2.652300	2.228000	0.015900	0.201600	0.201600
Mobile	70.414400	67.923500	671.484700	1.213200	120.779900	32.603100
Total	83.86	70.58	673.77	1.23	120.98	32.80

Existing Buildout Year 2050

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	13.1519	5.40E-04	0.0597	0.00E+00	2.10E-04	2.10E-04
Energy	0.2918	2.6523	2.228	0.0159	0.2016	0.2016
Mobile	33.9104	18.4903	357.8647	0.7883	120.1356	32.0547
Total	47.3541	21.1432	360.1524	0.8042	120.3374	32.2565

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	13.1519	5.40E-04	0.0597	0.00E+00	2.10E-04	2.10E-04
Energy	0.2918	2.6523	2.228	0.0159	0.2016	0.2016
Mobile	29.5007	20.0268	323.2506	0.7231	120.1356	32.0548
Total	42.9443	22.6797	325.5383	0.739	120.3374	32.2565

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	13.151900	0.000540	0.059700	0.000000	0.000210	0.000210
Energy	0.291800	2.652300	2.228000	0.015900	0.201600	0.201600
Mobile	33.910400	20.026800	357.864700	0.788300	120.135600	32.054800
Total	47.35	22.68	360.15	0.80	120.34	32.26

Existing Remaining Buildout Year 2050

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	8.0862	3.30E-04	0.0367	0.00E+00	1.30E-04	1.30E-04
Energy	0.1794	1.6307	1.3698	9.78E-03	0.1239	0.1239
Mobile	33.9105	18.4904	357.8653	0.7883	120.1358	32.0548
Total	42.1761	20.1214	359.2718	0.7981	120.2598	32.1789

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	8.0862	3.30E-04	0.0367	0.00E+00	1.30E-04	1.30E-04
Energy	0.1794	1.6307	1.3698	9.78E-03	0.1239	0.1239
Mobile	29.5007	20.0268	323.2511	0.7231	120.1358	32.0548
Total	37.7663	21.6579	324.6576	0.7329	120.2598	32.1789

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	8.086200	0.000330	0.036700	0.000000	0.000130	0.000130
Energy	0.179400	1.630700	1.369800	0.009780	0.123900	0.123900
Mobile	33.910500	20.026800	357.865300	0.788300	120.135800	32.054800
Total	42.18	21.66	359.27	0.80	120.26	32.18

Regional Thresholds

	55	55	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

New Proposed Buildout Year 2050

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	9.0854	8.60E-04	0.0962	1.00E-05	3.40E-04	3.40E-04
Energy	0.1604	1.4578	1.2246	8.75E-03	0.1108	0.1108
Mobile	1.9119	1.02	20.1743	0.0444	6.7711	1.8065
Total	11.1576	2.4786	21.495	0.0531	6.8823	1.9176

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	9.0854	8.60E-04	0.0962	1.00E-05	3.40E-04	3.40E-04
Energy	0.1604	1.4578	1.2246	8.75E-03	0.1108	0.1108
Mobile	1.6632	1.1053	18.2218	0.0407	6.7711	1.8065
Total	10.909	2.564	19.5425	0.0495	6.8823	1.9176

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	9.085400	0.000860	0.096200	0.000010	0.000340	0.000340
Energy	0.160400	1.457800	1.224600	0.008750	0.110800	0.110800
Mobile	1.911900	1.105300	20.174300	0.044400	6.771100	1.806500
Total	11.16	2.56	21.50	0.05	6.88	1.92

Regional Thresholds

	55	55	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

Full Buildout Year 2050

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	17.1716	0.00119	0.1329	0.00001	0.00047	0.00047
Energy	0.3398	3.0885	2.5944	0.01853	0.2347	0.2347
Mobile	35.8224	19.5104	378.0396	0.8327	126.9069	33.8613
Total	53.3338	22.60009	380.7669	0.85124	127.14207	34.09647

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	17.1716	0.00119	0.1329	0.00001	0.00047	0.00047
Energy	0.3398	3.0885	2.5944	0.01853	0.2347	0.2347
Mobile	31.1639	21.1321	341.4729	0.7638	126.9069	33.8613
Total	48.6753	24.22179	344.2002	0.78234	127.14207	34.09647

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	17.171600	0.001190	0.132900	0.000010	0.000470	0.000470
Energy	0.339800	3.088500	2.594400	0.018530	0.234700	0.234700
Mobile	35.822400	21.132100	378.039600	0.832700	126.906900	33.861300
Total	53.33	24.22	380.77	0.85124	127.14	34.10

Net Change Buildout Year 2050

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.0197	0.00065	0.0732	0.00001	0.00026	0.00026
Energy	0.048	0.4362	0.3664	0.00263	0.0331	0.0331
Mobile	1.912	1.0201	20.1749	0.0444	6.7713	1.8066
Total	5.9797	1.45689	20.6145	0.04704	6.80467	1.83997

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.0197	0.00065	0.0732	0.00001	0.00026	0.00026
Energy	0.048	0.4362	0.3664	0.00263	0.0331	0.0331
Mobile	1.6632	1.1053	18.2223	0.0407	6.7713	1.8065
Total	5.731	1.54209	18.6619	0.04334	6.80467	1.83997

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	4.019700	0.000650	0.073200	0.000010	0.000260	0.000260
Energy	0.048000	0.436200	0.366400	0.002630	0.033100	0.033100
Mobile	1.912000	1.105300	20.174900	0.044400	6.771300	1.806600
Total	5.98	1.54	20.61	0.05	6.80	1.84

Regional Thresholds

Exceeds Thresholds?

55	55	550	150	150	55
No	No	No	No	No	No

Construction and Operation Overlap Scenario

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Maximum Daily Operation (Net)	5.98	1.54	20.61	0.05	6.80	1.84
Construction Peak Emissions	204.01	35.91	94.49	0.25	16.98	7.54
Combined	209.99	37.46	115.10	0.30	23.79	9.38

GHG Emissions Inventory

*CalEEMod, Version 2020.4.0

Existing - 2021

Source	Buildout MTCO ₂ e/Year	Percent of Project Total
Area	0	0%
Energy	1,817	10%
Mobile	15,403	81%
Waste	1,512	8%
Water	271	1%
Total All Sectors	19,003	100%

Proposed Project Buildout - 2050

Phase 1	1,172	MTCO ₂ e
Phase 2	322	MTCO ₂ e
Phase 3	79	MTCO ₂ e
Phase 4	104	MTCO ₂ e
Phase 5	719	MTCO ₂ e
Total Construction	2,396	MTCO₂e

Proposed Project

Remaining Existing Land Uses

Source	Buildout MTons/Year	Percent of Project Total
Area	0	0%
Energy	1,117	8%
Mobile	11,095	79%
Waste	1,512	11%
Water	271	2%
Total All Sectors	13,996	100%

New Land Uses

Source	Buildout MTons/Year	Percent of Project Total
Area	0	0%
Energy	1,024	59%
Mobile	624	36%
Waste	85	5%
Water	13	1%
Total All Sectors	1,747	100%

Combined

Source	Buildout MTons/Year	Percent of Project Total
Area	0	0%
Energy	2,141	14%
Mobile	11,720	74%
Waste	1,598	10%
Water	284	2%
Amortized Construction Emissions*	80	1%
Total All Sectors	15,822	100%

*Total construction emissions are amortized over 30 years per South Coast AQMD methodology; SCAQMD. 2010, September 28.
 Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 15.
<http://www.aqmd.gov/ceqa/handbook/GHG/2010/sept28mtg/sept29.html>.

Net Difference

Source	Buildout MTons/Year	Percent Change
Area	0	122%
Energy	324	18%
Mobile	-3,683	-24%
Waste	85	6%
Water	13	5%
Amortized Construction Emissions	80	n/a
Total All Sectors	-3,181	-17%
South Coast AQMD Bright-Line Screening Threshold	3,000	
Exceed Threshold?	No	

2. Criteria Air Pollutant and GHG Modeling Inputs and Assumptions

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CalEEMod Land Use Inputs: Existing

Name: Rancho Cucamonga Campus
Project Location: 5885 Haven Avenue, Rancho Cucamonga, CA 91737
County/Air Basin: San Bernardino County (SC)
Climate Zone: 10
Land Use Setting: Urban
Operational Year: 2021 & 2051
Utility Company: SCE
Air Basin: SoCAB
Air District: South Coast AQMD

Total Project Site Area 200.00 acres
 Acreage Disturbed acres

Land Use	Existing Land Use Square Feet
College	588,479

CalEEMod Land Use Inputs

Land Use	Land Use Type	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational	Junior College	588.479	1000BSF	200.00	588,479

Trip Generation

	Education	Warehouse	Total	Fleet Mix %
Daily Trips: ¹	18946	36	18,982	100%
<i>Passenger</i>	18946	26	18,972	99.95%
2- & 3-Axle Trucks	0	4	4	0.02%
4-Axle Trucks	0	6	6	0.03%
Days Per Week	5	5	5	
Weeks Per Year	52	52	52	
Annual Trips	4,925,960	9,360	4,935,320	
<i>Passenger</i>	4,925,960	6,760	4,932,720	
2- & 3-Axle Trucks	0	1,040	1,040	
4-Axle Trucks	0	1,560	1,560	

Project Trips CalEEMod Inputs

	Weekday	Saturday	Sunday
CalEEMod Default Trip Rate - Junior College	20.25	11.23	1.21
	Percent of Weekday	55%	6%
Passenger/Main Model Run			
Land Use	Adjusted Weekday Trip Generation Rate	Adjusted Saturday Trip Generation	Adjusted Sunday Trip Generation
Junior College	32.2560	17.8882	1.9274

¹ Urban Crossroads. 2021, September 10. Chaffey Community College District's Rancho Cucamonga Campus Master Plan

Water Use*

[Info](#)

	Number of Students	Indoor Water Generation Rate (gal/student/yr) ¹	Total Annual Indoor Water Demand (gal/yr)	Outdoor Water Generation Rate (gal/student/yr) ¹	Total Annual Outdoor Water Demand (gal/yr)
Junior College	16,474	2,141	35,270,834	3,349	55,171,426

¹ CalEEMod default.

Solid Waste*

	Number of Dwelling Units	Solid Waste Generation Rate (ton/student/yr) ¹	Total Annual Solid Waste Generation (tons/yr)
Junior College	16,474	0.1825	3,007

¹ CalEEMod default.

Carbon Intensity Factors

Southern California Edison Carbon Intensity Factors

SCE CO ₂ e Intensity Factor ¹	512	pounds per megawatt hour
CO ₂ : ^{1,2}	509.983	pounds per megawatt hour
CH ₄ : ³	0.033	pound per megawatt hour
N ₂ O: ³	0.004	pound per megawatt hour

¹ Based on CO₂e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2020. 2020 Sustainability Report. <https://www.edison.com/content/dam/eix/documents/sustainability/eix-2020-sustainability-report.pdf>

² Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH₄ and N₂O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

³ CalEEMod default values.

General Conversion Factors

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to MTon	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

Global Warming Potentials (GWP)

CO ₂	1
CH ₄	25
N ₂ O	298

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

Energy

Utilizes CalEEMod default historical energy rates, which are based on the 2005 Building Energy Efficiency Standards.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Educational	588,479	2.0	1,176,958	882,719	294,240

*Based on CalEEMod methodology in calculating the paintable surface areas for a residential and nonresidential building and parking lots.

CalEEMod Land Use Inputs: Existing Remaining

Name: Rancho Cucamonga Campus
 Project Location: 5885 Haven Avenue, Rancho Cucamonga, CA 91737
 County/Air Basin: San Bernardino County (SC)
 Climate Zone: 10
 Land Use Setting: Urban
 Operational Year: 2051
 Utility Company: SCE
 Air Basin: SoCAB
 Air District: South Coast AQMD

Total Project Site Area 200.00 acres
 Acreage Disturbed acres

Land Use	Existing Land Use Square Feet	Existing Demolished Land Use Square Feet	Existing Remaining Land Use Square Feet	Proposed New Land Use Square Feet	Total Land Use square feet	Renovation Land Use square feet
College	588,479	0				
Phase 1	588,479	37,462	551,017	105,600	656,617	9,780
Phase 2	551,017	80,669	470,348	106,759	682,707	14,738
Phase 3	470,348	0	470,348	13,200	695,907	17,395
Phase 4	470,348	28,879	441,469	63,500	730,528	59,223
Phase 5	441,469	79,654	361,815	107,388	758,262	4,546
Total	n/a	226,664	361,815	396,447	758,262	

CalEEMod Land Use Inputs

Land Use	Land Use Type	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational	Junior College	361.815	1000BSF	182.33	361,815

Trip Generation

	Education	Warehouse	Total	Fleet Mix %
Daily Trips: ¹	18946	36	18,982	100%
<i>Passenger</i>	18946	26	18,972	99.95%
<i>2- & 3-Axle Trucks</i>	0	4	4	0.02%
<i>4-Axle Trucks</i>	0	6	6	0.03%
Days Per Week	5	5	5	
Weeks Per Year	52	52	52	
Annual Trips	4,925,960	9,360	4,935,320	
<i>Passenger</i>	4,925,960	6,760	4,932,720	
<i>2- & 3-Axle Trucks</i>	0	1,040	1,040	
<i>4-Axle Trucks</i>	0	1,560	1,560	

Project Trips CalEEMod Inputs

	Weekday	Saturday	Sunday
CalEEMod Default Trip Rate - Junior College	20.25	11.23	1.21
	Percent of Weekday	55%	6%

Land Use	Trips Per Day	Passenger/Main Model Run		
		Adjusted Weekday Trip Generation Rate	Adjusted Saturday Trip Generation	Adjusted Sunday Trip Generation
<i>Junior College</i>	18,982	52.4633	29.0944	3.1348

¹ Urban Crossroads. 2021, September 10. Chaffey Community College District's Rancho Cucamonga Campus Master Plan

Water Use*

[Info](#)

	Number of Students	Indoor Water Generation Rate (gal/student/yr) ¹	Total Annual Indoor Water Demand (gal/yr)	Outdoor Water Generation Rate (gal/student/yr) ¹	Total Annual Outdoor Water Demand (gal/yr)
Junior College	16,474	2,141	35,270,834	3,349	55,171,426

¹ CalEEMod default.

Solid Waste*

	Number of Dwelling Units	Solid Waste Generation Rate (ton/student/yr) ¹	Total Annual Solid Waste Generation (tons/yr)
Junior College	16,474	0.1825	3,007

¹ CalEEMod default.

Carbon Intensity Factors

Southern California Edison Carbon Intensity Factors

SCE CO ₂ e Intensity Factor ¹	512	pounds per megawatt hour
CO ₂ : ^{1,2}	509.983	pounds per megawatt hour
CH ₄ : ³	0.033	pound per megawatt hour
N ₂ O: ³	0.004	pound per megawatt hour

¹ Based on CO₂ e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2020. 2020 Sustainability Report.

<https://www.edison.com/content/dam/eix/documents/sustainability/eix-2020-sustainability-report.pdf>

² Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH₄ and N₂O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

³ CalEEMod default values.

General Conversion Factors

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to MTon	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

**Global Warming Potentials
(GWP)**

CO ₂	1
CH ₄	25
N ₂ O	298

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH₄ and N₂O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

Energy

Utilizes CalEEMod default historical energy rates, which are based on the 2005 Building Energy Efficiency Standards.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Educational	361,815	2.0	723,630	542,723	180,908

*Based on CalEEMod methodology in calculating the paintable surface areas for a residential and nonresidential building and parking lots.

CalEEMod Land Use Inputs: New Proposed

Name: Rancho Cucamonga Campus
Project Location: 5885 Haven Avenue, Rancho Cucamonga, CA 91737
County/Air Basin: San Bernardino County (SC)
Climate Zone: 10
Land Use Setting: Urban
Operational Year: 2051
Utility Company: SCE
Air Basin: SoCAB
Air District: South Coast AQMD

Total Project Site Area 200.00 acres
 Acreage Disturbed acres

Land Use	Existing Land Use Square Feet	Existing Demolished Land Use Square Feet	Existing Remaining Land Use Square Feet	Proposed New Land Use Square Feet	Total Land Use square feet	Renovation Land Use square feet
College	588,479	0				
Phase 1	588,479	37,462	551,017	105,600	656,617	9,780
Phase 2	551,017	80,669	470,348	106,759	682,707	14,738
Phase 3	470,348	0	470,348	13,200	695,907	17,395
Phase 4	470,348	28,879	441,469	63,500	730,528	59,223
Phase 5	441,469	79,654	361,815	107,388	758,262	4,546
Total	n/a	226,664	361,815	396,447	758,262	
Other Use						
Parking Lot	321,399	square feet				
Non-Parking Asphalt	230,673	square feet				

CalEEMod Land Use Inputs (Passenger Vehicles and Truck Only Model Runs)

Land Use	Land Use Type	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational	Junior College	396.447	1000BSF	4.99	396,447
Parking Lot	Parking Lot	321.399	1000BSF	7.38	321,399
Parking Lot	Other Asphalt Surface	230.673	1000BSF	5.30	230,673

Trip Generation

	Education	Total	Fleet Mix %		
Daily Trips: ¹	1,070	1,070	100%		
<i>Passenger</i>	1,070	1,070	100.00%		
2- & 3-Axle Trucks	0	0	0.00%		
4-Axle Trucks	0	0	0.00%		
Days Per Week	5	5			
Weeks Per Year	52	52			
Annual Trips	278,200	278,200		Total Annual Trips	Average Daily Trips
<i>Passenger</i>	278,200	278,200	278,200	764	100%
2- & 3-Axle Trucks	0	0	0	0	0.00%
4-Axle Trucks	0	0	0	0	0.00%

Project Trips CalEEMod Inputs

	Weekday	Saturday	Sunday
CalEEMod Default Trip Rate - Junior College	20.25	11.23	1.21
	Percent of Weekday	55%	6%

Land Use	Passenger/Main Model Run			
	Trips Per Day	Adjusted Weekday Trip Generation Rate	Adjusted Saturday Trip Generation	Adjusted Sunday Trip Generation
Junior College	1,070	2.6990	1.4968	0.1613

¹ Urban Crossroads. 2021, September 10. Chaffey Community College District's Rancho Cucamonga Campus Master Plan

Water Use*

	Number of Students	Indoor Water Generation Rate (gal/student/yr) ¹	Total Annual Indoor Water Demand (gal/yr)	Outdoor Water Generation Rate (gal/student/yr) ¹	Total Annual Outdoor Water Demand (gal/yr)
Educational	930	2,141	1,991,130	3,349	3,114,570

¹ CalEEMod default.

Solid Waste*

	Number of Students	Solid Waste Generation Rate (ton/student/yr) ¹	Total Annual Solid Waste Generation (tons/yr)
Educational	930	0.1825	170

¹ CalEEMod default.

Carbon Intensity Factors**Southern California Edison Carbon Intensity Factors**

SCE CO ₂ e Intensity Factor ¹	512	pounds per megawatt hour
CO ₂ : ^{1,2}	509.983	pounds per megawatt hour
CH ₄ : ³	0.033	pound per megawatt hour
N ₂ O: ³	0.004	pound per megawatt hour

¹ Based on CO₂e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2020. 2020 Sustainability Report.

<https://www.edison.com/content/dam/eix/documents/sustainability/eix-2020-sustainability-report.pdf>

² Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH₄ and N₂O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

³ CalEEMod default values.

General Conversion Factors

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to MTON	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

Global Warming Potentials (GWP)

CO ₂	1
CH ₄	25
N ₂ O	298

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH4 and N2O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

Energy

Utilizes CalEEMod default energy rates.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Educational	396,447	2.0	792,894	594,671	198,224
			Non-Residential Total	594,671	198,224
Parking Lot	321,399	6%	19,284	0	19,284
			Parking Total	0	19,284

*Based on CalEEMod methodology in calculating the paintable surface areas for a residential and nonresidential building and parking lots.

Changes to the CalEEMod Defaults - Fleet Mix 2021

Passenger Trips: 18,982

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.530515	0.055377	0.171759	0.144367	0.028476	0.007361	0.011734	0.017293	0.000580	0.000260	0.025722	0.000955	0.005601	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	96%						2%	2%						100%
Proportion Assumed Mix	0.550568	0.057470	0.178251	0.149824	0.029552	0.007639	0.613382	1.000000	0.030319	0.013591	0.026694	0.049922	0.292786	100.00%
	99.95%						0.02%	0.03%						
adjusted with Assumed Trips	0.550278	0.057440	0.178158	0.149745	0.029537	0.007635	0.000129	0.000316	0.000006	0.000003	0.026680	0.000011	0.000062	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	55%	6%	18%	15%	3%	1%	0.02%	0.03%	0%	0%	3%	0%	0%	100%
Modified	0.550278	0.057440	0.178158	0.149745	0.029537	0.007635	0.000211	0.000316	0.000000	0.000000	0.026680	0.000000	0.000000	100.0%
Final Check Trips	10,445	1,090	3,382	2,842	561	145	4	6	0	0	506	0	0	18,982
	100%						0%	0%						

Changes to the CalEEMod Defaults - Fleet Mix 2050

Passenger Trips: 18,982

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.558039	0.060650	0.178875	0.120770	0.020934	0.006143	0.012443	0.015691	0.000493	0.000199	0.022232	0.000895	0.002635	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	97%						2%	2%						100%
Proportion Assumed Mix	0.576699	0.062678	0.184856	0.124808	0.021634	0.006348	0.746655	1.000000	0.029583	0.011941	0.022975	0.053705	0.158116	100.00%
	99.95%						0.02%	0.03%						
adjusted with Assumed Trips	0.576395	0.062645	0.184759	0.124743	0.021623	0.006345	0.000157	0.000316	0.000006	0.000003	0.022963	0.000011	0.000033	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	58%	6%	18%	12%	2%	1%	0.02%	0.03%	0%	0%	2%	0%	0%	100%
Modified	0.576395	0.062645	0.184759	0.124743	0.021623	0.006345	0.000211	0.000316	0.000000	0.000000	0.022963	0.000000	0.000000	100.0%
Final Check Trips	10,941	1,189	3,507	2,368	410	120	4	6	0	0	436	0	0	18,982

Construction Activities and Schedule Assumptions:*

* Based on CalEEMod 2020.4.0 defaults and anticipated buildout dates.

Construction Activities	Construction Schedule			
	Start Date	End Date	Duration (Calendar Days)	Duration (Work Days)
Phase 1				
Demolition	1/1/2026	1/28/2026	27	20
Site Preparation	1/29/2026	2/11/2026	13	10
Grading	2/12/2026	3/25/2026	41	30
Building Construction	3/26/2026	5/19/2027	419	300
Paving	5/20/2027	6/16/2027	27	20
Architectural Coating	6/17/2027	7/14/2027	27	20
Phase 2				
Demolition	8/1/2030	8/28/2030	27	20
Site Preparation	8/29/2030	8/30/2030	1	2
Grading	8/31/2030	9/5/2030	5	4
Building Construction	9/6/2030	6/12/2031	279	200
Paving	6/13/2031	6/26/2031	13	10
Architectural Coating	6/27/2031	7/10/2031	13	10
Phase 3				
Site Preparation	2/13/2038	2/15/2038	2	1
Grading	2/16/2038	2/17/2038	1	2
Building Construction	2/18/2038	7/7/2038	139	100
Paving	7/8/2038	7/14/2038	6	5
Architectural Coating	7/15/2038	7/21/2038	6	5
Phase 4				
Demolition	2/3/2042	2/14/2042	11	10
Site Preparation	2/15/2042	2/17/2042	2	1
Grading	2/18/2042	2/19/2042	1	2
Building Construction	2/20/2042	7/9/2042	139	100
Paving	7/10/2042	7/16/2042	6	5
Architectural Coating	7/17/2042	7/23/2042	6	5
Phase 5*				
Demolition	1/1/2049	1/28/2049	27	20
Site Preparation	1/29/2049	2/11/2049	13	10
Grading	2/12/2049	3/25/2049	41	30
Building Construction	3/26/2049	5/19/2050	419	300
Paving	5/20/2050	6/16/2050	27	20
Architectural Coating	6/17/2050	7/14/2050	27	20

*Phase 5 is anticipated to be completed in year 2051. However, modeling is based on a start year of 2049 because CalEEMod does not provide on-road vehicle emissions data beyond year 2050.

CalEEMod Project Characteristics Inputs (Construction): Phase 1

Name: Chaffey College - Rancho Cucamonga Campa
 County/Air Basin: San Bernardino (SC)
 Climate Zone: 10
 Land Use Setting: Urban
 Operational Year: 2027
 Utility Company: SCE
 Air Basin: SoCAB
 Air District: South Coast AQMD
 SRA: 32 - Northwest San Bernardino Valley

Construction Site Area 13.89 acres

Land Use	Existing Land Use Square Feet	Existing Demolished Land Use Square Feet	Existing Remaining Land Use Square Feet	Proposed New Land Use Square Feet	Total Land Use square feet	Renovation Land Use square feet
College	588,479					
Phase 1	588,479	37,462	551,017	105,600	656,617	39,312
Other Use¹						
Parking Lot	321,399	square feet				
Non-Parking Asphalt	230,673	square feet				

¹ For purposes of this analysis, assumes would be constructed in Phase 1.

CalEEMod Land Use Inputs

Land Use	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational ¹	Junior College (2 year)	144.912	1000 BSF	1.21	144,912
Parking Lot	Parking Lot	321.399	1000 BSF	7.378	321,399
Parking Lot	Other Asphalt	230.673	1000 BSF	5.296	230,673

¹ Includes proposed new and renovation building square footage.

Demolition Haul

Phases	Amount to be Hauled					
	(tons) ¹	Haul Truck Capacity (tons) ²	Haul Distance (miles) ²	Total Trip Ends	Duration (days)	Trip Ends/Day
Building Demo Debris Haul	1,723	20.23	20.0	172	20	9

¹ Based on CalEEMod 2020.4.0 conversion factor of 0.046 ton/building square foot.

² CalEEMod default.

Phases	Amount to be Hauled					
	(tons) ¹	Haul Truck Capacity (tons) ²	Haul Distance (miles) ²	Total Trip Ends	Duration (days)	Trip Ends/Day
Asphalt Demo Debris Haul	1,228	20.23	20.0	122	20	7

¹ Based on measurement of areas anticipated to be demolished using Google Earth Pro.

² CalEEMod default.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier ¹	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area	Total Paintable Exterior Surface
				(BSF) ²	Area (BSF) ²
Junior College (2 year)	144,912	2.0	289,824	217,368	72,456
			Building Total	217,368	72,456
Parking Lot	321,399	6%	19,284	0	19,284
			Parking Total	0	19,284

¹ CalEEMod methodology calculates the paintable interior and exterior areas of a building by multiplying the total paintable surface area by 75 and 25 percent, respectively. For parking lots, the paintable surface area is based on 6 percent of the total surface area of the parking lot.

Construction - Unmitigated Run

South Coast AQMD Rule 403

Replace Ground Cover PM10: 5 % Reduction
 PM25: 5 % Reduction

Water Exposed Area Frequency: 2 per day
 PM10: 55 % Reduction
 PM25: 55 % Reduction

Unpaved Roads Vehicle Speed: 15 mph

South Coast AQMD Rule 1186

Clean Paved Road 9 % PM Reduction

CalEEMod Project Characteristics Inputs (Construction): Phase2

Name: Chaffey College - Rancho Cucamonga Campa
 County/Air Basin: San Bernardino (SC)
 Climate Zone: 10
 Land Use Setting: Urban
 Operational Year: 2031
 Utility Company: SCE
 Air Basin: SoCAB
 Air District: South Coast AQMD
 SRA: 32 - Northwest San Bernardino Valley

Construction Site Area 1.23 acres

Land Use	Existing Land Use Square Feet	Existing Demolished Land Use Square Feet	Existing Remaining Land Use Square Feet	Proposed New Land Use Square Feet	Total Land Use square feet	Renovation Land Use square feet
College	588,479	0				
Phase 1	588,479	37,462	551,017	105,600	656,617	39,312
Phase 2	551,017	80,669	470,348	106,759	682,707	24,828

CalEEMod Land Use Inputs

Land Use	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational ¹	Junior College (2 year)	131.587	1000 BSF	1.23	131,587

¹ Includes proposed new and renovation building square footage.

Demolition Haul

Phases	Amount to be Hauled					
	(tons) ¹	Haul Truck Capacity (tons) ²	Haul Distance (miles) ²	Total Trip Ends	Duration (days)	Trip Ends/Day
Building Demo Debris Haul	3,711	20.23	20.0	368	20	19

¹ Based on CalEEMod 2020.4.0 conversion factor of 0.046 ton/buildng square foot.

² CalEEMod default.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier ¹	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area	Total Paintable Exterior Surface
				(BSF) ²	Area (BSF) ²
Junior College (2 year)	131,587	2.0	263,174	197,381	65,794
			Building Total	197,381	65,794

¹ CalEEMod default.

² CalEEMod methodology calculates the paintable interior and exterior areas of a building by multiplying the total paintable surface area by 75 and 25 percent, respectively.

Construction - Unmitigated Run

South Coast AQMD Rule 403

Replace Ground Cover
 PM10: 5 % Reduction
 PM25: 5 % Reduction

Water Exposed Area
 Frequency: 2 per day
 PM10: 55 % Reduction
 PM25: 55 % Reduction

Unpaved Roads
 Vehicle Speed: 15 mph

South Coast AQMD Rule 1186

Clean Paved Road 9 % PM Reduction

CalEEMod Project Characteristics Inputs (Construction): Phase 3

Name: Chaffey College - Rancho Cucamonga Campa
 County/Air Basin: San Bernardino (SC)
 Climate Zone: 10
 Land Use Setting: Urban
 Operational Year: 2038
 Utility Company: SCE
 Air Basin: SoCAB
 Air District: South Coast AQMD
 SRA: 32 - Northwest San Bernardino Valley

Construction Site Area 0.30 acres

Land Use	Existing Land Use Square Feet	Existing Demolished Land Use Square Feet	Existing Remaining Land Use Square Feet	Proposed New Land Use Square Feet	Total Land Use square feet	Renovation Land Use square feet
College	588,479	0				
Phase 1	588,479	37,462	551,017	105,600	656,617	39,312
Phase 2	551,017	80,669	470,348	106,759	682,707	24,828
Phase 3	470,348	0	470,348	13,200	695,907	36,936

CalEEMod Land Use Inputs

Land Use	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational ¹	Junior College (2 year)	50.136	1000 BSF	0.30	50,136

¹ Includes proposed new and renovation building square footage.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier ¹	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF) ²	Total Paintable Exterior Surface Area (BSF) ²
Junior College (2 year)	50,136	2.0	100,272	75,204	25,068
			Building Total	75,204	25,068

¹ CalEEMod default.

² CalEEMod methodology calculates the paintable interior and exterior areas of a building by multiplying the total paintable surface area by 75 and 25 percent, respectively.

Construction - Unmitigated Run

SCAQMD Rule 403

Replace Ground Cover PM10: 5 % Reduction
 PM25: 5 % Reduction

Water Exposed Area Frequency: 2 per day
 PM10: 55 % Reduction
 PM25: 55 % Reduction

Unpaved Roads Vehicle Speed: 15 mph

SCAQMD Rule 1186

Clean Paved Road 9 % PM Reduction

CalEEMod Project Characteristics Inputs (Construction): Phase 4

Name: Chaffey College - Rancho Cucamonga Campa
 County/Air Basin: San Bernardino (SC)
 Climate Zone: 10
 Land Use Setting: Urban
 Operational Year: 2042
 Utility Company: SCE
 Air Basin: SoCAB
 Air District: South Coast AQMD
 SRA: 32 - Northwest San Bernardino Valley

Construction Site Area 0.73 acres

Land Use	Existing Land Use Square Feet	Existing Demolished Land Use Square Feet	Existing Remaining Land Use Square Feet	Proposed New Land Use Square Feet	Total Land Use square feet	Renovation Land Use square feet
College	588,479	0				
Phase 1	588,479	37,462	551,017	105,600	656,617	39,312
Phase 2	551,017	80,669	470,348	106,759	682,707	24,828
Phase 3	470,348	0	470,348	13,200	695,907	36,936
Phase 4	470,348	28,879	441,469	63,500	730,528	45,254

CalEEMod Land Use Inputs

Land Use	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational ¹	Junior College (2 year)	108.754	1000 BSF	0.73	108,754

¹ Includes proposed new and renovation building square footage.

Demolition Haul

Phases	Amount to be Hauled			Total Trip Ends	Duration (days)	Trip Ends/Day
	(tons) ¹	Haul Truck Capacity (tons) ²	Haul Distance (miles) ²			
Building Demo Debris Haul	1,328	20.23	20.0	132	10	14

¹ Based on CalEEMod 2020.4.0 conversion factor of 0.046 ton/building square foot.

² CalEEMod default.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier ¹	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area	Total Paintable Exterior Surface Area
				(BSF) ²	Area (BSF) ²
Junior College (2 year)	108,754	2.0	217,508	163,131	54,377
			Building Total	163,131	54,377

¹ CalEEMod default.

² CalEEMod methodology calculates the paintable interior and exterior areas of a building by multiplying the total paintable surface area by 75 and 25 percent, respectively.

Construction - Unmitigated Run

South Coast AQMD Rule 403

Replace Ground Cover PM10: 5 % Reduction
 PM25: 5 % Reduction

Water Exposed Area Frequency: 2 per day
 PM10: 55 % Reduction
 PM25: 55 % Reduction

Unpaved Roads Vehicle Speed: 15 mph

South Coast AQMD Rule 1186

Clean Paved Road 9 % PM Reduction

CalEEMod Project Characteristics Inputs (Construction): Phase 5

Name: Chaffey College - Rancho Cucamonga Campa
 County/Air Basin: San Bernardino (SC)
 Climate Zone: 10
 Land Use Setting: Urban
 Operational Year: 2051
 Utility Company: SCE
 Air Basin: SoCAB
 Air District: South Coast AQMD
 SRA: 32 - Northwest San Bernardino Valley

Construction Site Area 17.30 acres

Land Use	Existing Land Use Square Feet	Existing Demolished Land Use Square Feet	Existing Remaining Land Use Square Feet	Proposed New Land Use Square Feet	Total Land Use square feet	Renovation Land Use square feet
College	588,479	0				
Phase 1	588,479	37,462	551,017	105,600	656,617	39,312
Phase 2	551,017	80,669	470,348	106,759	682,707	24,828
Phase 3	470,348	0	470,348	13,200	695,907	36,936
Phase 4	470,348	28,879	441,469	63,500	730,528	45,254
Phase 5	441,469	79,654	361,815	107,388	758,262	51,278
Total	n/a	226,664	361,815	396,447	758,262	
Other Renovation						
Track	179,431	square feet				
Other Fields	507,642	square feet				

CalEEMod Land Use Inputs

Land Use	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational ¹	Junior College (2 year)	158.666	1000 BSF	1.52	158,666
Parking Lot	Other Non Asphalt Surface	687.073	1000 BSF	15.773	0

¹ Includes proposed new and renovation building square footage.

Demolition Haul

Phases	Amount to be Hauled			Total Trip Ends	Duration (days)	Trip Ends/Day
	(tons) ¹	Haul Truck Capacity (tons) ²	Haul Distance (miles) ²			
Building Demo Debris Haul	3,664	20.23	20.0	364	20	19

¹ Based on CalEEMod 2020.4.0 conversion factor of 0.046 ton/buildng square foot.

² CalEEMod default.

Architectural Coating

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier ¹	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area	Total Paintable Exterior Surface
				(BSF) ²	Area (BSF) ²
Junior College (2 year)	158,666	2.0	317,332	237,999	79,333
			Building Total	237,999	79,333

¹ CalEEMod default.

² CalEEMod methodology calculates the paintable interior and exterior areas of a building by multiplying the total paintable surface area by 75 and 25 percent, respectively.

Construction - Unmitigated Run

South Coast AQMD Rule 403

Replace Ground Cover
 PM10: 5 % Reduction
 PM25: 5 % Reduction

Water Exposed Area
 Frequency: 2 per day
 PM10: 55 % Reduction
 PM25: 55 % Reduction

Unpaved Roads
 Vehicle Speed: 15 mph

South Coast AQMD Rule 1186

Clean Paved Road 9 % PM Reduction

Pavement Volume to Weight Conversion

Component	Total SF of Area ¹	Assumed Thickness (foot) ²	Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf) ³	AC Mass (lbs)	AC Mass (tons)
Asphalt Demo	11,416	0.451	5,147	89	457,486	228.74
	5,877	0.451	2,650	89	235,515	117.76
	7,036	0.451	3,172	89	281,961	140.98
	36,980	0.451	16,672	89	1,481,939	740.97
Total	61,309					1,228

¹ Based on aerial image of existing roadway segment.

² Based on roadway project.

³ <https://www.calrecycle.ca.gov/swfacilities/cdi/Tools/Calculations>

Summarized Construction Equipment List: Phase 1*

**Based on CalEEMod 2020.4.0 defaults.*

Construction Activity	Equipment Type	Number of Equipment	Hours/Day	Horsepower	Load Factor	Construction	
						Trips	Vendor Trips
Demolition						15	24
	Concrete/Industrial Saws	1	8	81	0.73		
	Excavators	3	8	158	0.38		
	Rubber Tired Dozers	2	8	247	0.4		
	Water Truck	2					4
Site Preparation						18	8
	Rubber Tired Dozers	3	8	247	0.4		
	Tractors/Loaders/Backhoes	4	8	97	0.37		
	Water Truck*	4					8
Rough Grading						20	16
	Excavators	2	8	158	0.38		
	Graders	1	8	187	0.41		
	Rubber Tired Dozers	1	8	247	0.4		
	Scrapers	2	8	367	0.48		
	Tractors/Loaders/Backhoes	2	8	97	0.37		
	Water Truck*	8					16
Building Construction						293	114
	Cranes	1	7	231	0.29		
	Forklifts	3	8	89	0.2		
	Generator Sets	1	8	84	0.74		
	Tractors/Loaders/Backhoes	3	7	97	0.37		
	Welders	1	8	46	0.45		
Asphalt Paving						15	0
	Pavers	2	8	130	0.42		
	Paving Equipment	2	8	132	0.36		
	Rollers	2	8	80	0.38		
Architectural Coating						59	0
	Air Compressors	1	6	78	0.48		

**Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department. Guidance for Application for Dust Control Permit.*

Summarized Construction Equipment List: Phase 2*

*Based on CalEEMod 2020.4.0 defaults.

Construction Activity	Equipment Type	Number of Equipment	Hours/Day	Horsepower	Load Factor	Construction	
						Trips	Vendor Trips
Demolition						13	4
	Concrete/Industrial Saws	1	8	81	0.73		
	Rubber Tired Dozers	1	8	247	0.4		
	Tractors/Loaders/Backhoes	3	8	97	0.37		
	Water Truck	2					4
Site Preparation						8	4
	Graders	1	8	187	0.41		
	Rubber Tired Dozers	1	7	247	0.4		
	Tractors/Loaders/Backhoes	1	8	97	0.37		
	Water Truck*	2					4
Grading						10	6
	Graders	1	8	187	0.41		
	Rubber Tired Dozers	1	8	247	0.4		
	Tractors/Loaders/Backhoes	2	7	97	0.37		
	Water Truck*	3					6
Building Construction						55	22
	Cranes	1	6	231	0.29		
	Forklifts	1	6	89	0.2		
	Generator Sets	1	8	84	0.74		
	Tractors/Loaders/Backhoes	1	6	97	0.37		
	Welders	3	8	46	0.45		
Asphalt Paving						13	0
	Cement and Mortar Mixers	1	6	9	0.56		
	Pavers	1	6	130	0.42		
	Paving Equipment	1	8	132	0.36		
	Rollers	1	7	80	0.38		
	Tractors/Loaders/Backhoes	1	8	97	0.37		
Architectural Coating						11	0
	Air Compressors	1	6	78	0.48		

*Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department. Guidance for Application for Dust Control Permit.

Summarized Construction Equipment List: Phase 3*

**Based on CalEEMod 2020.4.0 defaults.*

Construction Activity	Equipment Type	Number of Equipment	Hours/Day	Horsepower	Load Factor	Construction	
						Trips	Vendor Trips
Site Preparation						5	2
	Graders	1	8	187	0.41		
	Tractors/Loaders/Backhoes	1	8	97	0.37		
	Water Truck*	1					2
Grading						8	4
	Graders	1	6	187	0.41		
	Rubber Tired Dozers	1	6	247	0.4		
	Tractors/Loaders/Backhoes	1	7	97	0.37		
	Water Truck*	2					4
Building Construction						21	8
	Cranes	1	4	231	0.29		
	Forklifts	2	6	89	0.2		
	Tractors/Loaders/Backhoes	2	8	97	0.37		
Asphalt Paving						18	0
	Cement and Mortar Mixers	4	6	9	0.56		
	Pavers	1	7	130	0.42		
	Rollers	1	7	80	0.38		
	Tractors/Loaders/Backhoes	1	7	97	0.37		
Architectural Coating						4	0
	Air Compressors	1	6	78	0.48		

**Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department. Guidance for Application for Dust Control Permit.*

Summarized Construction Equipment List: Phase 4*

*Based on CalEEMod 2020.4.0 defaults.

Construction Activity	Equipment Type	Number of Equipment	Hours/Day	Horsepower	Load Factor	Construction	
						Trips	Vendor Trips
Demolition						10	4
	Concrete/Industrial Saws	1	8	81	0.73		
	Rubber Tired Dozers	1	8	247	0.4		
	Tractors/Loaders/Backhoes	2	8	97	0.37		
	Water Truck	2					4
Site Preparation						5	2
	Graders	1	8	187	0.41		
	Tractors/Loaders/Backhoes	1	8	97	0.37		
	Water Truck*	1					2
Grading						8	4
	Graders	1	6	187	0.41		
	Rubber Tired Dozers	1	6	247	0.4		
	Tractors/Loaders/Backhoes	1	7	97	0.37		
	Water Truck*	2					4
Building Construction						46	18
	Cranes	1	4	231	0.29		
	Forklifts	2	6	89	0.2		
	Tractors/Loaders/Backhoes	2	8	97	0.37		
Asphalt Paving						18	0
	Cement and Mortar Mixers	4	6	9	0.56		
	Pavers	1	7	130	0.42		
	Rollers	1	7	80	0.38		
	Tractors/Loaders/Backhoes	1	7	97	0.37		
Architectural Coating						9	0
	Air Compressors	1	6	78	0.48		

*Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department. Guidance for Application for Dust Control Permit.

Summarized Construction Equipment List: Phase 5*

*Based on CalEEMod 2020.4.0 defaults.

Construction Activity	Equipment Type	Number of Equipment	Hours/Day	Horsepower	Load Factor	Construction	
						Trips	Vendor Trips
Demolition						15	4
	Concrete/Industrial Saws	1	8	81	0.73		
	Excavators	3	8	158	0.38		
	Rubber Tired Dozers	2	8	247	0.4		
	Water Truck	2					4
Site Preparation						18	8
	Rubber Tired Dozers	3	8	247	0.4		
	Tractors/Loaders/Backhoes	4	8	97	0.37		
	Water Truck*	4					8
Grading						20	16
	Excavators	2	8	158	0.38		
	Graders	1	8	187	0.41		
	Rubber Tired Dozers	1	8	247	0.4		
	Scrapers	2	8	367	0.48		
	Tractors/Loaders/Backhoes	2	8	97	0.37		
	Water Truck*	8					16
Building Construction						67	26
	Cranes	1	7	231	0.29		
	Forklifts	3	8	89	0.2		
	Generator Sets	1	8	84	0.74		
	Tractors/Loaders/Backhoes	3	7	97	0.37		
	Welders	1	8	46	0.45		
Asphalt Paving						15	0
	Pavers	2	8	130	0.42		
	Paving Equipment	2	8	132	0.36		
	Rollers	2	8	80	0.38		
Architectural Coating						13	0
	Air Compressors	1	6	78	0.48		

*Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department. Guidance for Application for Dust Control Permit.

Construction-Related Vehicle Trips Worksheet

	Daily Worker Trips	Daily Vendor Trips	Daily Haul Trips	Total Haul Trips	Start	End	Duration
Phase 1							
Demolition	15	4	16	294	2026/01/01	2026/01/28	20
Site Preparation	18	8	0	0	2026/01/29	2026/02/11	10
Grading	20	16	0	0	2026/02/12	2026/03/25	30
Building Construction	293	114	0	0	2026/03/26	2027/05/19	300
Paving	15	0	0	0	2027/05/20	2027/06/16	20
Architectural Coating	59	0	0	0	2027/06/17	2027/07/14	20
Phase 2							
Demolition	13	4	20	368	2030/08/01	2030/08/28	20
Site Preparation	8	4	0	0	2030/08/29	2030/08/30	2
Grading	10	6	0	0	2030/08/31	2030/09/05	4
Building Construction	55	22	0	0	2030/09/06	2031/06/12	200
Paving	13	0	0	0	2031/06/13	2031/06/26	10
Architectural Coating	11	0	0	0	2031/06/27	2031/07/10	10
Phase 3							
Site Preparation	5	2	0	0	2038/02/13	2038/02/15	1
Grading	8	4	0	0	2038/02/16	2038/02/17	2
Building Construction	21	8	0	0	2038/02/18	2038/07/07	100
Paving	18	0	0	0	2038/07/08	2038/07/14	5
Architectural Coating	4	0	0	0	2038/07/15	2038/07/21	5
Phase 4							
Demolition	10	4	14	132	2042/02/03	2042/02/14	10
Site Preparation	5	2	0	0	2042/02/15	2042/02/17	1
Grading	8	4	0	0	2042/02/18	2042/02/19	2
Building Construction	46	18	0	0	2042/02/20	2042/07/09	100
Paving	18	0	0	0	2042/07/10	2042/07/16	5
Architectural Coating	9	0	0	0	2042/07/17	2042/07/23	5
Phase 5							
Demolition	15	4	20	364	2049/01/01	2049/01/28	20
Site Preparation	18	8	0	0	2049/01/29	2049/02/11	10
Grading	20	16	0	0	2049/02/12	2049/03/25	30
Building Construction	67	26	0	0	2049/03/26	2050/05/19	300
Paving	15	0	0	0	2050/05/20	2050/06/16	20
Architectural Coating	13	0	0	0	2050/06/17	2050/07/14	20

Adjusted Trips

Construction Scenario	Daily Worker Trips	Daily Vendor Trips	Daily Haul Trips	Total Daily Trips	Start Date	End Date	Workdays
Phase 1							
Demolition	15	4	16	35	2026/01/01	2026/01/28	20
Site Preparation	18	8	0	26	2026/01/29	2026/02/11	10
Grading	20	16	0	36	2026/02/12	2026/03/25	30
Building Construction	293	114	0	407	2026/03/26	2027/05/19	300
Paving	15	0	0	15	2027/05/20	2027/06/16	20
Architectural Coating	59	0	0	59	2027/06/17	2027/07/14	20
Max Daily	293	114	0	407			
Phase 2							
Demolition	13	4	20	37	2030/08/01	2030/08/28	20
Site Preparation	8	4	0	12	2030/08/29	2030/08/30	2
Grading	10	6	0	16	2030/08/31	2030/09/05	4
Building Construction	55	22	0	77	2030/09/06	2031/06/12	200
Paving	13	0	0	13	2031/06/13	2031/06/26	10
Architectural Coating	11	0	0	11	2031/06/27	2031/07/10	10
Max Daily	55	22	20	77			
Phase 3							
Site Preparation	5	2	0	7	2038/02/13	2038/02/15	1
Grading	8	4	0	12	2038/02/16	2038/02/17	2
Building Construction	21	8	0	29	2038/02/18	2038/07/07	100
Paving	18	0	0	18	2038/07/08	2038/07/14	5
Architectural Coating	4	0	0	4	2038/07/15	2038/07/21	5
Max Daily	21	8	0	29			
Phase 4							
Demolition	10	4	14	28	2042/02/03	2042/02/14	10
Site Preparation	5	2	0	7	2042/02/15	2042/02/17	1
Grading	8	4	0	12	2042/02/18	2042/02/19	2
Building Construction	46	18	0	64	2042/02/20	2042/07/09	100
Paving	18	0	0	18	2042/07/10	2042/07/16	5
Architectural Coating	9	0	0	9	2042/07/17	2042/07/23	5
Max Daily	46	18	14	64			
Phase 5							
Demolition	15	4	20	39	2049/01/01	2049/01/28	20
Site Preparation	18	8	0	26	2049/01/29	2049/02/11	10
Grading	20	16	0	36	2049/02/12	2049/03/25	30
Building Construction	67	26	0	93	2049/03/26	2050/05/19	300
Paving	15	0	0	15	2050/05/20	2050/06/16	20
Architectural Coating	13	0	0	13	2050/06/17	2050/07/14	20
Max Daily	67	26	20	93			
Overall Max Daily	293	114	20	407			

3. CalEEMod Output: Phase 1 Construction

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Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P1

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	144.91	1000sqft	1.21	144,912.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2027

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information received from the College District.

Trips and VMT - See the Construction Phase 1 modeling assumptions worksheet in the AQ/GHG appendix of the DEIR.

Demolition -

Architectural Coating - Based on new propose parking lot areas.

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	33,124.00	19,284.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.33	1.21
tblTripsAndVMT	HaulingTripNumber	292.00	294.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	0.00	16.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.9821	28.5353	27.1660	0.0729	19.9095	1.1360	20.9992	10.1706	1.0453	11.1732	0.0000	7,419.5508	7,419.5508	1.9541	0.3629	7,545.3270
2027	71.9815	16.8686	26.0801	0.0717	4.0054	0.5699	4.5753	1.0789	0.5363	1.6152	0.0000	7,314.8594	7,314.8594	0.7162	0.3532	7,437.5775
Maximum	71.9815	28.5353	27.1660	0.0729	19.9095	1.1360	20.9992	10.1706	1.0453	11.1732	0.0000	7,419.5508	7,419.5508	1.9541	0.3629	7,545.3270

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					
2026	2.9821	28.5353	27.1660	0.0729	8.6368	1.1360	9.7265	4.3822	1.0453	5.3849	0.0000	7,419.5508	7,419.5508	1.9541	0.3629	7,545.3270
2027	71.9815	16.8686	26.0801	0.0717	3.7023	0.5699	4.2723	1.0045	0.5363	1.5408	0.0000	7,314.8594	7,314.8594	0.7162	0.3532	7,437.5775
Maximum	71.9815	28.5353	27.1660	0.0729	8.6368	1.1360	9.7265	4.3822	1.0453	5.3849	0.0000	7,419.5508	7,419.5508	1.9541	0.3629	7,545.3270

	ROG	NOx	CO	SO2	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	48.40	0.00	45.26	52.12	0.00	45.84	0.00	0.00	0.00	0.00	0.00	0.00

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	2/11/2026	5	10	
3	Grading	Grading	2/12/2026	3/25/2026	5	30	
4	Building Construction	Building Construction	3/26/2026	5/19/2027	5	300	
5	Paving	Paving	5/20/2027	6/16/2027	5	20	
6	Architectural Coating	Architectural Coating	6/17/2027	7/14/2027	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 12.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,368; Non-Residential Outdoor: 72,456; Striped Parking Area: 19,284

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	294.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2026

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.1585	0.0000	3.1585	0.4782	0.0000	0.4782			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	2.0926	19.1966	19.4184	0.0388	3.1585	0.8528	4.0113	0.4782	0.7920	1.2702		3,747.5996	3,747.5996	1.0464		3,773.7606
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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	0.0345	1.5888	0.4919	7.7600e-003	0.2574	0.0166	0.2740	0.0706	0.0158	0.0864		846.0461	846.0461	0.0351	0.1341	886.8826
Vendor	4.4100e-003	0.1397	0.0562	6.8000e-004	0.0256	1.0300e-003	0.0267	7.3800e-003	9.9000e-004	8.3600e-003		72.7626	72.7626	1.8300e-003	0.0107	76.0062
Worker	0.0474	0.0253	0.4575	1.3600e-003	0.1677	7.2000e-004	0.1684	0.0445	6.6000e-004	0.0451		142.7992	142.7992	2.6900e-003	2.9200e-003	143.7365
Total	0.0864	1.7537	1.0057	9.8000e-003	0.4507	0.0183	0.4690	0.1224	0.0175	0.1399		1,061.6079	1,061.6079	0.0397	0.1477	1,106.6252

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3503	0.0000	1.3503	0.2044	0.0000	0.2044			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	1.3503	0.8528	2.2030	0.2044	0.7920	0.9964	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0345	1.5888	0.4919	7.7600e-003	0.2399	0.0166	0.2565	0.0663	0.0158	0.0821		846.0461	846.0461	0.0351	0.1341	886.8826
Vendor	4.4100e-003	0.1397	0.0562	6.8000e-004	0.0240	1.0300e-003	0.0250	6.9800e-003	9.9000e-004	7.9600e-003		72.7626	72.7626	1.8300e-003	0.0107	76.0062
Worker	0.0474	0.0253	0.4575	1.3600e-003	0.1546	7.2000e-004	0.1553	0.0413	6.6000e-004	0.0419		142.7992	142.7992	2.6900e-003	2.9200e-003	143.7365
Total	0.0864	1.7537	1.0057	9.8000e-003	0.4185	0.0183	0.4367	0.1145	0.0175	0.1320		1,061.6079	1,061.6079	0.0397	0.1477	1,106.6252

3.3 Site Preparation - 2026

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.6570	1.0868	20.7438	10.1025	0.9999	11.1023		3,689.1037	3,689.1037	1.1931		3,718.9320

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	8.8200e-003	0.2793	0.1125	1.3600e-003	0.0513	2.0600e-003	0.0533	0.0148	1.9700e-003	0.0167	145.5251	145.5251	3.6600e-003	0.0215	152.0124	
Worker	0.0569	0.0304	0.5490	1.6300e-003	0.2012	8.6000e-004	0.2021	0.0534	7.9000e-004	0.0542	171.3590	171.3590	3.2300e-003	3.5000e-003	172.4838	
Total	0.0658	0.3097	0.6614	2.9900e-003	0.2525	2.9200e-003	0.2554	0.0681	2.7600e-003	0.0709	316.8841	316.8841	6.8900e-003	0.0250	324.4962	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	8.4034	1.0868	9.4902	4.3188	0.9999	5.3187	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0000
Vendor	8.8200e-003	0.2793	0.1125	1.3600e-003	0.0480	2.0600e-003	0.0500	0.0140	1.9700e-003	0.0159	145.5251	145.5251	3.6600e-003	0.0215	152.0124	

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0569	0.0304	0.5490	1.6300e-003	0.1855	8.6000e-004	0.1863	0.0495	7.9000e-004	0.0503		171.3590	171.3590	3.2300e-003	3.5000e-003	172.4838
Total	0.0658	0.3097	0.6614	2.9900e-003	0.2334	2.9200e-003	0.2364	0.0634	2.7600e-003	0.0662		316.8841	316.8841	6.8900e-003	0.0250	324.4962

3.4 Grading - 2026

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.2036	1.1309	10.3345	3.6538	1.0404	4.6942		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0000
Vendor	0.0176	0.5587	0.2249	2.7100e-003	0.1025	4.1200e-003	0.1066	0.0295	3.9400e-003	0.0335		291.0502	291.0502	7.3300e-003	0.0429	304.0248
Worker	0.0633	0.0337	0.6100	1.8100e-003	0.2236	9.6000e-004	0.2245	0.0593	8.8000e-004	0.0602		190.3989	190.3989	3.5900e-003	3.8900e-003	191.6488
Total	0.0809	0.5924	0.8349	4.5200e-003	0.3261	5.0800e-003	0.3311	0.0888	4.8200e-003	0.0936		481.4491	481.4491	0.0109	0.0468	495.6734

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.9345	1.1309	5.0654	1.5620	1.0404	2.6024	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0000
Vendor	0.0176	0.5587	0.2249	2.7100e-003	0.0959	4.1200e-003	0.1001	0.0279	3.9400e-003	0.0319		291.0502	291.0502	7.3300e-003	0.0429	304.0248
Worker	0.0633	0.0337	0.6100	1.8100e-003	0.2061	9.6000e-004	0.2070	0.0550	8.8000e-004	0.0559		190.3989	190.3989	3.5900e-003	3.8900e-003	191.6486
Total	0.0809	0.5924	0.8349	4.5200e-003	0.3020	5.0800e-003	0.3071	0.0829	4.8200e-003	0.0877		481.4491	481.4491	0.0109	0.0468	495.6734

3.5 Building Construction - 2026

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
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Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1256	3.9804	1.6025	0.0193	0.7304	0.0294	0.7597	0.2103	0.0281	0.2384		2,073.7326	2,073.7326	0.0522	0.3058	2,166.1767
Worker	0.9267	0.4940	8.9360	0.0266	3.2751	0.0140	3.2891	0.8686	0.0129	0.8815		2,789.3438	2,789.3438	0.0526	0.0570	2,807.6523
Total	1.0523	4.4744	10.5386	0.0459	4.0054	0.0434	4.0488	1.0789	0.0410	1.1199		4,863.0764	4,863.0764	0.1048	0.3629	4,973.8290

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.1256	3.9804	1.6025	0.0193	0.6836	0.0294	0.7129	0.1988	0.0281	0.2269		2,073.7326	2,073.7326	0.0522	0.3058	2,166.1767
Worker	0.9267	0.4940	8.9360	0.0266	3.0188	0.0140	3.0328	0.8057	0.0129	0.8186		2,789.3438	2,789.3438	0.0526	0.0570	2,807.6523
Total	1.0523	4.4744	10.5386	0.0459	3.7024	0.0434	3.7458	1.0045	0.0410	1.0455		4,863.0764	4,863.0764	0.1048	0.3629	4,973.8290

3.5 Building Construction - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.1237	3.9505	1.5840	0.0189	0.7303	0.0292	0.7595	0.2103	0.0279	0.2382	2,029.8758	2,029.8758	0.0505	0.2992	2,120.3105	
Worker	0.8682	0.4485	8.4114	0.0258	3.2751	0.0132	3.2882	0.8686	0.0121	0.8807	2,728.5092	2,728.5092	0.0478	0.0539	2,745.7689	
Total	0.9919	4.3990	9.9954	0.0447	4.0054	0.0424	4.0478	1.0789	0.0401	1.1189	4,758.3850	4,758.3850	0.0983	0.3532	4,866.0794	

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1237	3.9505	1.5840	0.0189	0.6835	0.0292	0.7127	0.1988	0.0279	0.2267	2,029.8758	2,029.8758	0.0505	0.2992	2,120.3105	
Worker	0.8682	0.4485	8.4114	0.0258	3.0188	0.0132	3.0320	0.8057	0.0121	0.8178	2,728.5092	2,728.5092	0.0478	0.0539	2,745.7689	

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.9919	4.3990	9.9954	0.0447	3.7023	0.0424	3.7447	1.0045	0.0401	1.0445		4,758.3850	4,758.3850	0.0983	0.3532	4,866.0794
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3.6 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5762	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0230	0.4306	1.3200e-003	0.1677	6.8000e-004	0.1683	0.0445	6.2000e-004	0.0451		139.6848	139.6848	2.4500e-003	2.7600e-003	140.5684
Total	0.0445	0.0230	0.4306	1.3200e-003	0.1677	6.8000e-004	0.1683	0.0445	6.2000e-004	0.0451		139.6848	139.6848	2.4500e-003	2.7600e-003	140.5684

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5762	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0230	0.4306	1.3200e-003	0.1546	6.8000e-004	0.1552	0.0413	6.2000e-004	0.0419		139.6848	139.6848	2.4500e-003	2.7600e-003	140.5684
Total	0.0445	0.0230	0.4306	1.3200e-003	0.1546	6.8000e-004	0.1552	0.0413	6.2000e-004	0.0419		139.6848	139.6848	2.4500e-003	2.7600e-003	140.5684

3.7 Architectural Coating - 2027

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
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Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Archit. Coating	71.6358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	71.8066	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1748	0.0903	1.6938	5.1900e-003	0.6595	2.6600e-003	0.6621	0.1749	2.4400e-003	0.1773		549.4268	549.4268	9.6200e-003	0.0109	552.9023
Total	0.1748	0.0903	1.6938	5.1900e-003	0.6595	2.6600e-003	0.6621	0.1749	2.4400e-003	0.1773		549.4268	549.4268	9.6200e-003	0.0109	552.9023

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	71.6358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Construction P1 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	71.8066	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
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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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1748	0.0903	1.6938	5.1900e-003	0.6079	2.6600e-003	0.6105	0.1622	2.4400e-003	0.1647		549.4268	549.4268	9.6200e-003	0.0109	552.9023
Total	0.1748	0.0903	1.6938	5.1900e-003	0.6079	2.6600e-003	0.6105	0.1622	2.4400e-003	0.1647		549.4268	549.4268	9.6200e-003	0.0109	552.9023

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P1

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	144.91	1000sqft	1.21	144,912.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2027

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information received from the College District.

Trips and VMT - See the Construction Phase 1 modeling assumptions worksheet in the AQ/GHG appendix of the DEIR.

Demolition -

Architectural Coating - Based on new propose parking lot areas.

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	33,124.00	19,284.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.33	1.21
tblTripsAndVMT	HaulingTripNumber	292.00	294.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	0.00	16.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.9789	28.5684	27.0668	0.0704	19.9095	1.1360	20.9992	10.1706	1.0453	11.1732	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571
2027	71.9766	17.1138	24.6705	0.0693	4.0054	0.5700	4.5754	1.0789	0.5364	1.6153	0.0000	7,065.3370	7,065.3370	0.7162	0.3557	7,188.8301
Maximum	71.9766	28.5684	27.0668	0.0704	19.9095	1.1360	20.9992	10.1706	1.0453	11.1732	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571

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					
2026	2.9789	28.5684	27.0668	0.0704	8.6368	1.1360	9.7265	4.3822	1.0453	5.3849	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571
2027	71.9766	17.1138	24.6705	0.0693	3.7023	0.5700	4.2724	1.0045	0.5364	1.5409	0.0000	7,065.3370	7,065.3370	0.7162	0.3557	7,188.8301
Maximum	71.9766	28.5684	27.0668	0.0704	8.6368	1.1360	9.7265	4.3822	1.0453	5.3849	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571

	ROG	NOx	CO	SO2	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	48.40	0.00	45.26	52.12	0.00	45.84	0.00	0.00	0.00	0.00	0.00	0.00

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	2/11/2026	5	10	
3	Grading	Grading	2/12/2026	3/25/2026	5	30	
4	Building Construction	Building Construction	3/26/2026	5/19/2027	5	300	
5	Paving	Paving	5/20/2027	6/16/2027	5	20	
6	Architectural Coating	Architectural Coating	6/17/2027	7/14/2027	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 12.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,368; Non-Residential Outdoor: 72,456; Striped Parking Area: 19,284

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	294.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2026

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.1585	0.0000	3.1585	0.4782	0.0000	0.4782			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	2.0926	19.1966	19.4184	0.0388	3.1585	0.8528	4.0113	0.4782	0.7920	1.2702		3,747.5996	3,747.5996	1.0464		3,773.7606
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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	0.0319	1.6750	0.5007	7.7800e-003	0.2574	0.0166	0.2740	0.0706	0.0159	0.0864		847.3517	847.3517	0.0350	0.1343	888.2464
Vendor	4.0800e-003	0.1475	0.0580	6.8000e-004	0.0256	1.0300e-003	0.0267	7.3800e-003	9.9000e-004	8.3700e-003		72.9434	72.9434	1.8200e-003	0.0108	76.1965
Worker	0.0460	0.0266	0.3778	1.2300e-003	0.1677	7.2000e-004	0.1684	0.0445	6.6000e-004	0.0451		129.4560	129.4560	2.7200e-003	3.0100e-003	130.4211
Total	0.0820	1.8491	0.9365	9.6900e-003	0.4507	0.0183	0.4690	0.1224	0.0175	0.1399		1,049.7511	1,049.7511	0.0396	0.1481	1,094.8640

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3503	0.0000	1.3503	0.2044	0.0000	0.2044			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	1.3503	0.8528	2.2030	0.2044	0.7920	0.9964	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0319	1.6750	0.5007	7.7800e-003	0.2399	0.0166	0.2565	0.0663	0.0159	0.0822		847.3517	847.3517	0.0350	0.1343	888.2464
Vendor	4.0800e-003	0.1475	0.0580	6.8000e-004	0.0240	1.0300e-003	0.0250	6.9800e-003	9.9000e-004	7.9700e-003		72.9434	72.9434	1.8200e-003	0.0108	76.1965
Worker	0.0460	0.0266	0.3778	1.2300e-003	0.1546	7.2000e-004	0.1553	0.0413	6.6000e-004	0.0419		129.4560	129.4560	2.7200e-003	3.0100e-003	130.4211
Total	0.0820	1.8491	0.9365	9.6900e-003	0.4185	0.0183	0.4368	0.1145	0.0175	0.1320		1,049.7511	1,049.7511	0.0396	0.1481	1,094.8640

3.3 Site Preparation - 2026

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.6570	1.0868	20.7438	10.1025	0.9999	11.1023		3,689.1037	3,689.1037	1.1931		3,718.9320

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	8.1600e-003	0.2951	0.1160	1.3600e-003	0.0513	2.0700e-003	0.0533	0.0148	1.9800e-003	0.0167	145.8869	145.8869	3.6300e-003	0.0215	152.3930	
Worker	0.0552	0.0319	0.4534	1.4800e-003	0.2012	8.6000e-004	0.2021	0.0534	7.9000e-004	0.0542	155.3472	155.3472	3.2600e-003	3.6100e-003	156.5053	
Total	0.0634	0.3269	0.5694	2.8400e-003	0.2525	2.9300e-003	0.2554	0.0681	2.7700e-003	0.0709	301.2341	301.2341	6.8900e-003	0.0251	308.8983	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	8.4034	1.0868	9.4902	4.3188	0.9999	5.3187	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0000
Vendor	8.1600e-003	0.2951	0.1160	1.3600e-003	0.0480	2.0700e-003	0.0500	0.0140	1.9800e-003	0.0159	145.8869	145.8869	3.6300e-003	0.0215	152.3930	

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0552	0.0319	0.4534	1.4800e-003	0.1855	8.6000e-004	0.1863	0.0495	7.9000e-004	0.0503		155.3472	155.3472	3.2600e-003	3.6100e-003	156.5053
Total	0.0634	0.3269	0.5694	2.8400e-003	0.2334	2.9300e-003	0.2364	0.0634	2.7700e-003	0.0662		301.2341	301.2341	6.8900e-003	0.0251	308.8983

3.4 Grading - 2026

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.2036	1.1309	10.3345	3.6538	1.0404	4.6942		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0000
Vendor	0.0163	0.5901	0.2320	2.7200e-003	0.1025	4.1400e-003	0.1066	0.0295	3.9600e-003	0.0335		291.7738	291.7738	7.2600e-003	0.0431	304.7860
Worker	0.0614	0.0354	0.5037	1.6400e-003	0.2236	9.6000e-004	0.2245	0.0593	8.8000e-004	0.0602		172.6080	172.6080	3.6200e-003	4.0100e-003	173.8948
Total	0.0777	0.6255	0.7357	4.3600e-003	0.3261	5.1000e-003	0.3312	0.0888	4.8400e-003	0.0936		464.3817	464.3817	0.0109	0.0471	478.6808

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.9345	1.1309	5.0654	1.5620	1.0404	2.6024	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0000
Vendor	0.0163	0.5901	0.2320	2.7200e-003	0.0959	4.1400e-003	0.1001	0.0279	3.9600e-003	0.0319		291.7738	291.7738	7.2600e-003	0.0431	304.7860
Worker	0.0614	0.0354	0.5037	1.6400e-003	0.2061	9.6000e-004	0.2070	0.0550	8.8000e-004	0.0559		172.6080	172.6080	3.6200e-003	4.0100e-003	173.8948
Total	0.0777	0.6255	0.7357	4.3600e-003	0.3020	5.1000e-003	0.3071	0.0829	4.8400e-003	0.0877		464.3817	464.3817	0.0109	0.0471	478.6808

3.5 Building Construction - 2026

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
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Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1163	4.2045	1.6529	0.0194	0.7304	0.0295	0.7598	0.2103	0.0282	0.2385		2,078.8880	2,078.8880	0.0518	0.3068	2,171.6005
Worker	0.8992	0.5189	7.3797	0.0241	3.2751	0.0140	3.2891	0.8686	0.0129	0.8815		2,528.7068	2,528.7068	0.0531	0.0588	2,547.5585
Total	1.0154	4.7233	9.0326	0.0435	4.0054	0.0435	4.0489	1.0789	0.0411	1.1200		4,607.5948	4,607.5948	0.1048	0.3656	4,719.1590

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.1163	4.2045	1.6529	0.0194	0.6836	0.0295	0.7130	0.1988	0.0282	0.2270		2,078.8880	2,078.8880	0.0518	0.3068	2,171.6005
Worker	0.8992	0.5189	7.3797	0.0241	3.0188	0.0140	3.0328	0.8057	0.0129	0.8186		2,528.7068	2,528.7068	0.0531	0.0588	2,547.5585
Total	1.0154	4.7233	9.0326	0.0435	3.7024	0.0435	3.7459	1.0045	0.0411	1.0456		4,607.5948	4,607.5948	0.1048	0.3656	4,719.1590

3.5 Building Construction - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1143	4.1732	1.6340	0.0190	0.7303	0.0293	0.7596	0.2103	0.0280	0.2383	2,034.9648	2,034.9648	0.0500	0.3002	2,125.6623	
Worker	0.8442	0.4709	6.9518	0.0234	3.2751	0.0132	3.2882	0.8686	0.0121	0.8807	2,473.8978	2,473.8978	0.0483	0.0556	2,491.6697	
Total	0.9585	4.6441	8.5858	0.0424	4.0054	0.0425	4.0479	1.0789	0.0402	1.1190	4,508.8626	4,508.8626	0.0983	0.3557	4,617.3320	

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1143	4.1732	1.6340	0.0190	0.6835	0.0293	0.7128	0.1988	0.0280	0.2268		2,034.9648	2,034.9648	0.0500	0.3002	2,125.6623
Worker	0.8442	0.4709	6.9518	0.0234	3.0188	0.0132	3.0320	0.8057	0.0121	0.8178		2,473.8978	2,473.8978	0.0483	0.0556	2,491.6697

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.9585	4.6441	8.5858	0.0424	3.7023	0.0425	3.7448	1.0045	0.0402	1.0446		4,508.8626	4,508.8626	0.0983	0.3557	4,617.3320
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3.6 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5762	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0241	0.3559	1.2000e-003	0.1677	6.8000e-004	0.1683	0.0445	6.2000e-004	0.0451		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599
Total	0.0432	0.0241	0.3559	1.2000e-003	0.1677	6.8000e-004	0.1683	0.0445	6.2000e-004	0.0451		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5762	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0241	0.3559	1.2000e-003	0.1546	6.8000e-004	0.1552	0.0413	6.2000e-004	0.0419		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599
Total	0.0432	0.0241	0.3559	1.2000e-003	0.1546	6.8000e-004	0.1552	0.0413	6.2000e-004	0.0419		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599

3.7 Architectural Coating - 2027

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
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Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Archit. Coating	71.6358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	71.8066	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1700	0.0948	1.3999	4.7100e-003	0.6595	2.6600e-003	0.6621	0.1749	2.4400e-003	0.1773		498.1569	498.1569	9.7300e-003	0.0112	501.7355
Total	0.1700	0.0948	1.3999	4.7100e-003	0.6595	2.6600e-003	0.6621	0.1749	2.4400e-003	0.1773		498.1569	498.1569	9.7300e-003	0.0112	501.7355

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	71.6358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Construction P1 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	71.8066	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
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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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1700	0.0948	1.3999	4.7100e-003	0.6079	2.6600e-003	0.6105	0.1622	2.4400e-003	0.1647		498.1569	498.1569	9.7300e-003	0.0112	501.7355
Total	0.1700	0.0948	1.3999	4.7100e-003	0.6079	2.6600e-003	0.6105	0.1622	2.4400e-003	0.1647		498.1569	498.1569	9.7300e-003	0.0112	501.7355

Construction P1 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P1
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	144.91	1000sqft	1.21	144,912.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 32
 Climate Zone 10 Operational Year 2027

Utility Company

CO2 Intensity 0 CH4 Intensity 0 N2O Intensity 0
 (lb/MWhr) (lb/MWhr) (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Based on information received from the College District.
 Trips and VMT - See the Construction Phase 1 modeling assumptions worksheet in the AQ/GHG appendix of the DEIR.
 Demolition -
 Architectural Coating - Based on new propose parking lot areas.
 Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	33,124.00	19,284.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.33	1.21
tblTripsAndVMT	HaulingTripNumber	292.00	294.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Construction P1 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction
Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.3118	2.4954	3.2597	8.8100e-003	0.6735	0.0886	0.7621	0.2196	0.0828	0.3023	0.0000	807.2010	807.2010	0.1063	0.0356	820.4570
2027	0.8578	0.9458	1.4187	3.7700e-003	0.2027	0.0330	0.2357	0.0547	0.0310	0.0856	0.0000	347.6788	347.6788	0.0382	0.0162	353.4508
Maximum	0.8578	2.4954	3.2597	8.8100e-003	0.6735	0.0886	0.7621	0.2196	0.0828	0.3023	0.0000	807.2010	807.2010	0.1063	0.0356	820.4570

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					
2026	0.3118	2.4954	3.2597	8.8100e-003	0.4896	0.0886	0.5782	0.1490	0.0828	0.2318	0.0000	807.2005	807.2005	0.1063	0.0356	820.4565
2027	0.8578	0.9458	1.4187	3.7700e-003	0.1874	0.0330	0.2204	0.0509	0.0310	0.0819	0.0000	347.6786	347.6786	0.0382	0.0162	353.4506
Maximum	0.8578	2.4954	3.2597	8.8100e-003	0.4896	0.0886	0.5782	0.1490	0.0828	0.2318	0.0000	807.2005	807.2005	0.1063	0.0356	820.4565

	ROG	NOx	CO	SO2	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	22.74	0.01	19.97	27.09	0.00	19.15	0.00	0.00	0.00	0.00	0.00	0.00

Construction P1 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2026	3-31-2026	0.8878	0.8878
2	4-1-2026	6-30-2026	0.6293	0.6293
3	7-1-2026	9-30-2026	0.6362	0.6362
4	10-1-2026	12-31-2026	0.6432	0.6432
5	1-1-2027	3-31-2027	0.6248	0.6248
6	4-1-2027	6-30-2027	0.8148	0.8148
7	7-1-2027	9-30-2027	0.3661	0.3661
		Highest	0.8878	0.8878

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	2/11/2026	5	10	
3	Grading	Grading	2/12/2026	3/25/2026	5	30	
4	Building Construction	Building Construction	3/26/2026	5/19/2027	5	300	
5	Paving	Paving	5/20/2027	6/16/2027	5	20	
6	Architectural Coating	Architectural Coating	6/17/2027	7/14/2027	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 12.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,368; Non-Residential Outdoor: 72,456; Striped Parking Area: 19,284

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

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Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	294.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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3.2 Demolition - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0316	0.0000	0.0316	4.7800e-003	0.0000	4.7800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350
Total	0.0209	0.1920	0.1942	3.9000e-004	0.0316	8.5300e-003	0.0401	4.7800e-003	7.9200e-003	0.0127	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350

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	3.3000e-004	0.0168	4.9600e-003	8.0000e-005	2.5300e-003	1.7000e-004	2.7000e-003	7.0000e-004	1.6000e-004	8.5000e-004	0.0000	7.6802	7.6802	3.2000e-004	1.2200e-003	8.0509
Vendor	4.0000e-005	1.4700e-003	5.7000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6608	0.6608	2.0000e-005	1.0000e-004	0.6903
Worker	4.2000e-004	2.8000e-004	3.9600e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.1975	1.1975	2.0000e-005	3.0000e-005	1.2066
Total	7.9000e-004	0.0186	9.4900e-003	1.0000e-004	4.4200e-003	1.9000e-004	4.6100e-003	1.2100e-003	1.8000e-004	1.3700e-003	0.0000	9.5385	9.5385	3.6000e-004	1.3500e-003	9.9477

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0135	0.0000	0.0135	2.0400e-003	0.0000	2.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349
Total	0.0209	0.1920	0.1942	3.9000e-004	0.0135	8.5300e-003	0.0220	2.0400e-003	7.9200e-003	9.9600e-003	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349

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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	3.3000e-004	0.0168	4.9600e-003	8.0000e-005	2.3600e-003	1.7000e-004	2.5300e-003	6.5000e-004	1.6000e-004	8.1000e-004	0.0000	7.6802	7.6802	3.2000e-004	1.2200e-003	8.0509
Vendor	4.0000e-005	1.4700e-003	5.7000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6608	0.6608	2.0000e-005	1.0000e-004	0.6903
Worker	4.2000e-004	2.8000e-004	3.9600e-003	1.0000e-005	1.5200e-003	1.0000e-005	1.5200e-003	4.1000e-004	1.0000e-005	4.1000e-004	0.0000	1.1975	1.1975	2.0000e-005	3.0000e-005	1.2066
Total	7.9000e-004	0.0186	9.4900e-003	1.0000e-004	4.1200e-003	1.9000e-004	4.3000e-003	1.1300e-003	1.8000e-004	1.3000e-003	0.0000	9.5385	9.5385	3.6000e-004	1.3500e-003	9.9477

3.3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1262	0.0896	1.9000e-004		5.4300e-003	5.4300e-003		5.0000e-003	5.0000e-003	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
Total	0.0124	0.1262	0.0896	1.9000e-004	0.0983	5.4300e-003	0.1037	0.0505	5.0000e-003	0.0555	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688

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	4.0000e-005	1.4700e-003	5.7000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6608	0.6608	2.0000e-005	1.0000e-004	0.6903
Worker	2.5000e-004	1.7000e-004	2.3800e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7185	0.7185	1.0000e-005	2.0000e-005	0.7239
Total	2.9000e-004	1.6400e-003	2.9500e-003	2.0000e-005	1.2400e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.5000e-004	0.0000	1.3793	1.3793	3.0000e-005	1.2000e-004	1.4142

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0420	0.0000	0.0420	0.0216	0.0000	0.0216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1262	0.0896	1.9000e-004		5.4300e-003	5.4300e-003		5.0000e-003	5.0000e-003	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
Total	0.0124	0.1262	0.0896	1.9000e-004	0.0420	5.4300e-003	0.0475	0.0216	5.0000e-003	0.0266	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688

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	4.0000e-005	1.4700e-003	5.7000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6608	0.6608	2.0000e-005	1.0000e-004	0.6903
Worker	2.5000e-004	1.7000e-004	2.3800e-003	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7185	0.7185	1.0000e-005	2.0000e-005	0.7239
Total	2.9000e-004	1.6400e-003	2.9500e-003	2.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.3000e-004	0.0000	1.3793	1.3793	3.0000e-005	1.2000e-004	1.4142

3.4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0435	0.4191	0.3950	9.3000e-004		0.0170	0.0170		0.0156	0.0156	0.0000	81.7593	81.7593	0.0264	0.0000	82.4204
Total	0.0435	0.4191	0.3950	9.3000e-004	0.1381	0.0170	0.1550	0.0548	0.0156	0.0704	0.0000	81.7593	81.7593	0.0264	0.0000	82.4204

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5000e-004	8.8100e-003	3.4200e-003	4.0000e-005	1.5100e-003	6.0000e-005	1.5800e-003	4.4000e-004	6.0000e-005	5.0000e-004	0.0000	3.9647	3.9647	1.0000e-004	5.9000e-004	4.1415
Worker	8.5000e-004	5.6000e-004	7.9200e-003	3.0000e-005	3.2900e-003	1.0000e-005	3.3000e-003	8.7000e-004	1.0000e-005	8.9000e-004	0.0000	2.3951	2.3951	5.0000e-005	6.0000e-005	2.4131
Total	1.1000e-003	9.3700e-003	0.0113	7.0000e-005	4.8000e-003	7.0000e-005	4.8800e-003	1.3100e-003	7.0000e-005	1.3900e-003	0.0000	6.3598	6.3598	1.5000e-004	6.5000e-004	6.5547

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0590	0.0000	0.0590	0.0234	0.0000	0.0234	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0435	0.4191	0.3950	9.3000e-004		0.0170	0.0170		0.0156	0.0156	0.0000	81.7592	81.7592	0.0264	0.0000	82.4203
Total	0.0435	0.4191	0.3950	9.3000e-004	0.0590	0.0170	0.0760	0.0234	0.0156	0.0390	0.0000	81.7592	81.7592	0.0264	0.0000	82.4203

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5000e-004	8.8100e-003	3.4200e-003	4.0000e-005	1.4200e-003	6.0000e-005	1.4800e-003	4.1000e-004	6.0000e-005	4.7000e-004	0.0000	3.9647	3.9647	1.0000e-004	5.9000e-004	4.1415
Worker	8.5000e-004	5.6000e-004	7.9200e-003	3.0000e-005	3.0300e-003	1.0000e-005	3.0500e-003	8.1000e-004	1.0000e-005	8.2000e-004	0.0000	2.3951	2.3951	5.0000e-005	6.0000e-005	2.4131
Total	1.1000e-003	9.3700e-003	0.0113	7.0000e-005	4.4500e-003	7.0000e-005	4.5300e-003	1.2200e-003	7.0000e-005	1.2900e-003	0.0000	6.3598	6.3598	1.5000e-004	6.5000e-004	6.5547

3.5 Building Construction - 2026

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	0.1374	1.2532	1.6165	2.7100e-003		0.0530	0.0530		0.0499	0.0499	0.0000	233.0791	233.0791	0.0548	0.0000	234.4488
Total	0.1374	1.2532	1.6165	2.7100e-003		0.0530	0.0530		0.0499	0.0499	0.0000	233.0791	233.0791	0.0548	0.0000	234.4488

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	0.0122	0.4207	0.1635	1.9500e-003	0.0723	2.9600e-003	0.0752	0.0209	2.8300e-003	0.0237	0.0000	189.2644	189.2644	4.7400e-003	0.0279	197.7061
Worker	0.0832	0.0546	0.7773	2.4700e-003	0.3229	1.4100e-003	0.3243	0.0858	1.3000e-003	0.0871	0.0000	235.0895	235.0895	4.9000e-003	5.5300e-003	236.8614
Total	0.0954	0.4754	0.9408	4.4200e-003	0.3951	4.3700e-003	0.3995	0.1066	4.1300e-003	0.1107	0.0000	424.3539	424.3539	9.6400e-003	0.0335	434.5675

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1374	1.2532	1.6165	2.7100e-003		0.0530	0.0530		0.0499	0.0499	0.0000	233.0788	233.0788	0.0548	0.0000	234.4485
Total	0.1374	1.2532	1.6165	2.7100e-003		0.0530	0.0530		0.0499	0.0499	0.0000	233.0788	233.0788	0.0548	0.0000	234.4485

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	0.0122	0.4207	0.1635	1.9500e-003	0.0677	2.9600e-003	0.0706	0.0197	2.8300e-003	0.0226	0.0000	189.2644	189.2644	4.7400e-003	0.0279	197.7061
Worker	0.0832	0.0546	0.7773	2.4700e-003	0.2977	1.4100e-003	0.2991	0.0796	1.3000e-003	0.0809	0.0000	235.0895	235.0895	4.9000e-003	5.5300e-003	236.8614
Total	0.0954	0.4754	0.9408	4.4200e-003	0.3653	4.3700e-003	0.3697	0.0993	4.1300e-003	0.1034	0.0000	424.3539	424.3539	9.6400e-003	0.0335	434.5675

3.5 Building Construction - 2027

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	0.0677	0.6173	0.7962	1.3300e-003		0.0261	0.0261		0.0246	0.0246	0.0000	114.8001	114.8001	0.0270	0.0000	115.4748
Total	0.0677	0.6173	0.7962	1.3300e-003		0.0261	0.0261		0.0246	0.0246	0.0000	114.8001	114.8001	0.0270	0.0000	115.4748

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	5.9000e-003	0.2057	0.0796	9.4000e-004	0.0356	1.4500e-003	0.0370	0.0103	1.3800e-003	0.0117	0.0000	91.2491	91.2491	2.2600e-003	0.0135	95.3165
Worker	0.0384	0.0244	0.3606	1.1800e-003	0.1590	6.5000e-004	0.1597	0.0422	6.0000e-004	0.0428	0.0000	113.2774	113.2774	2.2000e-003	2.5800e-003	114.1000
Total	0.0443	0.2301	0.4402	2.1200e-003	0.1946	2.1000e-003	0.1967	0.0525	1.9800e-003	0.0545	0.0000	204.5265	204.5265	4.4600e-003	0.0160	209.4165

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	0.0677	0.6173	0.7962	1.3300e-003		0.0261	0.0261		0.0246	0.0246	0.0000	114.8000	114.8000	0.0270	0.0000	115.4746
Total	0.0677	0.6173	0.7962	1.3300e-003		0.0261	0.0261		0.0246	0.0246	0.0000	114.8000	114.8000	0.0270	0.0000	115.4746

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	5.9000e-003	0.2057	0.0796	9.4000e-004	0.0333	1.4500e-003	0.0348	9.7200e-003	1.3800e-003	0.0111	0.0000	91.2491	91.2491	2.2600e-003	0.0135	95.3165
Worker	0.0384	0.0244	0.3606	1.1800e-003	0.1466	6.5000e-004	0.1473	0.0392	6.0000e-004	0.0398	0.0000	113.2774	113.2774	2.2000e-003	2.5800e-003	114.1000
Total	0.0443	0.2301	0.4402	2.1200e-003	0.1799	2.1000e-003	0.1820	0.0489	1.9800e-003	0.0509	0.0000	204.5265	204.5265	4.4600e-003	0.0160	209.4165

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2027

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	9.1500e-003	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0193	20.0193	6.4700e-003	0.0000	20.1811
Paving	0.0166					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0258	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0193	20.0193	6.4700e-003	0.0000	20.1811

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	4.0000e-004	2.5000e-004	3.7300e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.1716	1.1716	2.0000e-005	3.0000e-005	1.1801
Total	4.0000e-004	2.5000e-004	3.7300e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.1716	1.1716	2.0000e-005	3.0000e-005	1.1801

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	9.1500e-003	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0192	20.0192	6.4700e-003	0.0000	20.1811
Paving	0.0166					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0258	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0192	20.0192	6.4700e-003	0.0000	20.1811

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.0000e-004	2.5000e-004	3.7300e-003	1.0000e-005	1.5200e-003	1.0000e-005	1.5200e-003	4.1000e-004	1.0000e-005	4.1000e-004	0.0000	1.1716	1.1716	2.0000e-005	3.0000e-005	1.1801
Total	4.0000e-004	2.5000e-004	3.7300e-003	1.0000e-005	1.5200e-003	1.0000e-005	1.5200e-003	4.1000e-004	1.0000e-005	4.1000e-004	0.0000	1.1716	1.1716	2.0000e-005	3.0000e-005	1.1801

3.7 Architectural Coating - 2027

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	0.7164					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	0.7181	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567

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	1.5600e-003	9.9000e-004	0.0147	5.0000e-005	6.4700e-003	3.0000e-005	6.5000e-003	1.7200e-003	2.0000e-005	1.7400e-003	0.0000	4.6081	4.6081	9.0000e-005	1.0000e-004	4.6416
Total	1.5600e-003	9.9000e-004	0.0147	5.0000e-005	6.4700e-003	3.0000e-005	6.5000e-003	1.7200e-003	2.0000e-005	1.7400e-003	0.0000	4.6081	4.6081	9.0000e-005	1.0000e-004	4.6416

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.7164					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	0.7181	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567

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	1.5600e-003	9.9000e-004	0.0147	5.0000e-005	5.9600e-003	3.0000e-005	5.9900e-003	1.5900e-003	2.0000e-005	1.6200e-003	0.0000	4.6081	4.6081	9.0000e-005	1.0000e-004	4.6416
Total	1.5600e-003	9.9000e-004	0.0147	5.0000e-005	5.9600e-003	3.0000e-005	5.9900e-003	1.5900e-003	2.0000e-005	1.6200e-003	0.0000	4.6081	4.6081	9.0000e-005	1.0000e-004	4.6416

Construction P1
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	5	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Construction P1

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	1.71000E-003	1.14600E-002	1.80900E-002	3.00000E-005	5.20000E-004	5.20000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.40000E-004	0.00000E+000	2.55674E+000
Concrete/Industrial Saws	2.95000E-003	2.26900E-002	3.64500E-002	6.00000E-005	9.30000E-004	9.30000E-004	0.00000E+000	5.37657E+000	5.37657E+000	2.40000E-004	0.00000E+000	5.38248E+000
Cranes	4.10600E-002	4.15790E-001	2.27910E-001	7.60000E-004	1.76700E-002	1.62600E-002	0.00000E+000	6.65383E+001	6.65383E+001	2.15200E-002	0.00000E+000	6.70763E+001
Excavators	1.00300E-002	7.33000E-002	1.95560E-001	3.10000E-004	3.59000E-003	3.31000E-003	0.00000E+000	2.72339E+001	2.72339E+001	8.81000E-003	0.00000E+000	2.74541E+001
Forklifts	3.91000E-002	3.68340E-001	5.10190E-001	6.90000E-004	1.97200E-002	1.81400E-002	0.00000E+000	6.04311E+001	6.04311E+001	1.95400E-002	0.00000E+000	6.09197E+001
Generator Sets	3.99600E-002	3.59320E-001	5.48920E-001	9.90000E-004	1.43100E-002	1.43100E-002	0.00000E+000	8.47811E+001	8.47811E+001	3.13000E-003	0.00000E+000	8.48594E+001
Graders	4.67000E-003	5.18500E-002	2.39100E-002	1.00000E-004	1.67000E-003	1.54000E-003	0.00000E+000	8.71223E+000	8.71223E+000	2.82000E-003	0.00000E+000	8.78268E+000
Pavers	3.48000E-003	3.16600E-002	5.79200E-002	9.00000E-005	1.48000E-003	1.36000E-003	0.00000E+000	8.25526E+000	8.25526E+000	2.67000E-003	0.00000E+000	8.32201E+000
Paving Equipment	2.94000E-003	2.52900E-002	5.09300E-002	8.00000E-005	1.25000E-003	1.15000E-003	0.00000E+000	7.15437E+000	7.15437E+000	2.31000E-003	0.00000E+000	7.21222E+000
Rollers	2.74000E-003	2.88600E-002	3.69300E-002	5.00000E-005	1.45000E-003	1.34000E-003	0.00000E+000	4.60962E+000	4.60962E+000	1.49000E-003	0.00000E+000	4.64689E+000
Rubber Tired Dozers	3.24000E-002	3.31560E-001	1.49890E-001	4.30000E-004	1.45100E-002	1.33500E-002	0.00000E+000	3.75103E+001	3.75103E+001	1.21300E-002	0.00000E+000	3.78138E+001
Scrapers	2.01500E-002	1.91120E-001	1.61420E-001	4.50000E-004	7.52000E-003	6.92000E-003	0.00000E+000	3.99564E+001	3.99564E+001	1.29200E-002	0.00000E+000	4.02795E+001
Tractors/Loaders/Backhoes	5.86300E-002	5.92450E-001	9.89410E-001	1.38000E-003	2.40100E-002	2.20900E-002	0.00000E+000	1.21597E+002	1.21597E+002	3.93300E-002	0.00000E+000	1.22580E+002
Welders	3.29700E-002	2.01310E-001	2.47750E-001	3.80000E-004	6.13000E-003	6.13000E-003	0.00000E+000	2.82331E+001	2.82331E+001	2.68000E-003	0.00000E+000	2.83002E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Air Compressors	1.71000E-003	1.14600E-002	1.80900E-002	3.00000E-005	5.20000E-004	5.20000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.40000E-004	0.00000E+000	2.55673E+000
Concrete/Industrial Saws	2.95000E-003	2.26900E-002	3.64500E-002	6.00000E-005	9.30000E-004	9.30000E-004	0.00000E+000	5.37657E+000	5.37657E+000	2.40000E-004	0.00000E+000	5.38248E+000
Cranes	4.10600E-002	4.15790E-001	2.27910E-001	7.60000E-004	1.76700E-002	1.62600E-002	0.00000E+000	6.65382E+001	6.65382E+001	2.15200E-002	0.00000E+000	6.70762E+001
Excavators	1.00300E-002	7.33000E-002	1.95560E-001	3.10000E-004	3.59000E-003	3.31000E-003	0.00000E+000	2.72339E+001	2.72339E+001	8.81000E-003	0.00000E+000	2.74541E+001
Forklifts	3.91000E-002	3.68340E-001	5.10190E-001	6.90000E-004	1.97200E-002	1.81400E-002	0.00000E+000	6.04310E+001	6.04310E+001	1.95400E-002	0.00000E+000	6.09196E+001
Generator Sets	3.99600E-002	3.59320E-001	5.48920E-001	9.90000E-004	1.43100E-002	1.43100E-002	0.00000E+000	8.47810E+001	8.47810E+001	3.13000E-003	0.00000E+000	8.48593E+001
Graders	4.67000E-003	5.18500E-002	2.39100E-002	1.00000E-004	1.67000E-003	1.54000E-003	0.00000E+000	8.71222E+000	8.71222E+000	2.82000E-003	0.00000E+000	8.78267E+000
Pavers	3.48000E-003	3.16600E-002	5.79200E-002	9.00000E-005	1.48000E-003	1.36000E-003	0.00000E+000	8.25525E+000	8.25525E+000	2.67000E-003	0.00000E+000	8.32200E+000
Paving Equipment	2.94000E-003	2.52900E-002	5.09300E-002	8.00000E-005	1.25000E-003	1.15000E-003	0.00000E+000	7.15437E+000	7.15437E+000	2.31000E-003	0.00000E+000	7.21221E+000

Construction P1

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Rollers	2.74000E-003	2.88600E-002	3.69300E-002	5.00000E-005	1.45000E-003	1.34000E-003	0.00000E+000	4.60962E+000	4.60962E+000	1.49000E-003	0.00000E+000	4.64689E+000
Rubber Tired Dozers	3.24000E-002	3.31560E-001	1.49890E-001	4.30000E-004	1.45100E-002	1.33500E-002	0.00000E+000	3.75102E+001	3.75102E+001	1.21300E-002	0.00000E+000	3.78135E+001
Scrapers	2.01500E-002	1.91120E-001	1.61420E-001	4.50000E-004	7.52000E-003	6.92000E-003	0.00000E+000	3.99564E+001	3.99564E+001	1.29200E-002	0.00000E+000	4.02794E+001
Tractors/Loaders/Bac hoes	5.86300E-002	5.92450E-001	9.89410E-001	1.38000E-003	2.40100E-002	2.20900E-002	0.00000E+000	1.21596E+002	1.21596E+002	3.93300E-002	0.00000E+000	1.22580E+002
Welders	3.29700E-002	2.01310E-001	2.47750E-001	3.80000E-004	6.13000E-003	6.13000E-003	0.00000E+000	2.82331E+001	2.82331E+001	2.68000E-003	0.00000E+000	2.83001E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.91123E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85788E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20231E-006	1.20231E-006	0.00000E+000	0.00000E+000	1.19267E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10157E-006	1.10157E-006	0.00000E+000	0.00000E+000	1.09273E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15834E-006	1.15834E-006	0.00000E+000	0.00000E+000	1.31320E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17842E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14781E-006	1.14781E-006	0.00000E+000	0.00000E+000	1.13860E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21135E-006	1.21135E-006	0.00000E+000	0.00000E+000	1.20163E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.38654E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33297E-006	1.33297E-006	0.00000E+000	0.00000E+000	1.32228E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25136E-006	1.25136E-006	0.00000E+000	0.00000E+000	1.24133E-006
Tractors/Loaders/Bac hoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23359E-006	1.23359E-006	0.00000E+000	0.00000E+000	1.22369E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06258E-006	1.06258E-006	0.00000E+000	0.00000E+000	1.06006E-006

Construction P1

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.08	0.08
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.59	0.16	0.55	0.15	0.08	0.07
Demolition	Fugitive Dust	0.03	0.00	0.01	0.00	0.57	0.57
Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Grading	Fugitive Dust	0.14	0.05	0.06	0.02	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Site Preparation	Fugitive Dust	0.10	0.05	0.04	0.02	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.06

CalEEMod Output: Phase 1 Construction – Mitigated

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Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P1 - Mitigated
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	144.91	1000sqft	1.21	144,912.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2027

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information received from the College District.

Trips and VMT - See the Construction Phase 1 modeling assumptions worksheet in the AQ/GHG appendix of the DEIR.

Demolition -

Architectural Coating - Based on new propose parking lot areas. Includes mitigation.

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186. Mitigation for Tier 4 Interim

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	33,124.00	19,284.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LotAcreage	3.33	1.21
tblTripsAndVMT	HaulingTripNumber	292.00	294.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.9789	28.5684	27.0668	0.0704	19.9095	1.1360	20.9992	10.1706	1.0453	11.1732	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571
2027	26.6391	17.1138	24.6705	0.0693	4.0054	0.5700	4.5754	1.0789	0.5364	1.6153	0.0000	7,065.3370	7,065.3370	0.7162	0.3557	7,188.8301
Maximum	26.6391	28.5684	27.0668	0.0704	19.9095	1.1360	20.9992	10.1706	1.0453	11.1732	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571

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
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Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Year	lb/day										lb/day					
2026	2.2188	19.8962	37.4583	0.0704	7.5164	0.4424	7.5814	3.8064	0.4200	3.8713	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571
2027	26.6391	17.1650	24.9656	0.0693	3.7023	0.4413	4.1437	1.0045	0.4191	1.4235	0.0000	7,065.3370	7,065.3370	0.7162	0.3557	7,188.8301
Maximum	26.6391	19.8962	37.4583	0.0704	7.5164	0.4424	7.5814	3.8064	0.4200	3.8713	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571

	ROG	NOx	CO	SO2	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	2.57	18.87	-20.66	0.00	53.09	48.20	54.15	57.23	46.95	58.60	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	Demolition	Demolition	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	2/11/2026	5	10	
3	Grading	Grading	2/12/2026	3/25/2026	5	30	
4	Building Construction	Building Construction	3/26/2026	5/19/2027	5	300	
5	Paving	Paving	5/20/2027	6/16/2027	5	20	
6	Architectural Coating	Architectural Coating	6/17/2027	7/14/2027	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 12.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,368; Non-Residential Outdoor: 72,456; Striped Parking Area: 19,284

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	294.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Clean Paved Roads

3.2 Demolition - 2026

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					3.1585	0.0000	3.1585	0.4782	0.0000	0.4782			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	3.1585	0.8528	4.0113	0.4782	0.7920	1.2702		3,747.5996	3,747.5996	1.0464		3,773.7606

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	0.0319	1.6750	0.5007	7.7800e-003	0.2574	0.0166	0.2740	0.0706	0.0159	0.0864		847.3517	847.3517	0.0350	0.1343	888.2464
Vendor	4.0800e-003	0.1475	0.0580	6.8000e-004	0.0256	1.0300e-003	0.0267	7.3800e-003	9.9000e-004	8.3700e-003		72.9434	72.9434	1.8200e-003	0.0108	76.1965
Worker	0.0460	0.0266	0.3778	1.2300e-003	0.1677	7.2000e-004	0.1684	0.0445	6.6000e-004	0.0451		129.4560	129.4560	2.7200e-003	3.0100e-003	130.4211
Total	0.0820	1.8491	0.9365	9.6900e-003	0.4507	0.0183	0.4690	0.1224	0.0175	0.1399		1,049.7511	1,049.7511	0.0396	0.1481	1,094.8640

Mitigated Construction On-Site

**Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1702	0.0000	1.1702	0.1772	0.0000	0.1772			0.0000			0.0000
Off-Road	0.7646	13.5951	24.4601	0.0388		0.1461	0.1461		0.1461	0.1461	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	0.7646	13.5951	24.4601	0.0388	1.1702	0.1461	1.3163	0.1772	0.1461	0.3233	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

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	0.0319	1.6750	0.5007	7.7800e-003	0.2399	0.0166	0.2565	0.0663	0.0159	0.0822		847.3517	847.3517	0.0350	0.1343	888.2464
Vendor	4.0800e-003	0.1475	0.0580	6.8000e-004	0.0240	1.0300e-003	0.0250	6.9800e-003	9.9000e-004	7.9700e-003		72.9434	72.9434	1.8200e-003	0.0108	76.1965
Worker	0.0460	0.0266	0.3778	1.2300e-003	0.1546	7.2000e-004	0.1553	0.0413	6.6000e-004	0.0419		129.4560	129.4560	2.7200e-003	3.0100e-003	130.4211
Total	0.0820	1.8491	0.9365	9.6900e-003	0.4185	0.0183	0.4368	0.1145	0.0175	0.1320		1,049.7511	1,049.7511	0.0396	0.1481	1,094.8640

3.3 Site Preparation - 2026

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					

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.6570	1.0868	20.7438	10.1025	0.9999	11.1023		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0000
Vendor	8.1600e-003	0.2951	0.1160	1.3600e-003	0.0513	2.0700e-003	0.0533	0.0148	1.9800e-003	0.0167		145.8869	145.8869	3.6300e-003	0.0215	152.3930
Worker	0.0552	0.0319	0.4634	1.4800e-003	0.2012	8.6000e-004	0.2021	0.0534	7.9000e-004	0.0542		155.3472	155.3472	3.2600e-003	3.6100e-003	156.5053
Total	0.0634	0.3269	0.5694	2.8400e-003	0.2525	2.9300e-003	0.2554	0.0681	2.7700e-003	0.0709		301.2341	301.2341	6.8900e-003	0.0251	308.8983

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					7.2829	0.0000	7.2829	3.7430	0.0000	3.7430			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.6967	12.1620	22.9600	0.0381	7.2829	0.0621	7.3450	3.7430	0.0621	3.8050	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

**Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	0.0000
Vendor	8.1600e-003	0.2951	0.1160	1.3600e-003	0.0480	2.0700e-003	0.0500	0.0140	1.9800e-003	0.0159		145.8869	145.8869	3.6300e-003	0.0215	152.3930
Worker	0.0552	0.0319	0.4534	1.4800e-003	0.1855	8.6000e-004	0.1863	0.0495	7.9000e-004	0.0503		155.3472	155.3472	3.2600e-003	3.6100e-003	156.5053
Total	0.0634	0.3269	0.5694	2.8400e-003	0.2334	2.9300e-003	0.2364	0.0634	2.7700e-003	0.0662		301.2341	301.2341	6.8900e-003	0.0251	308.8983

3.4 Grading - 2026

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.2036	1.1309	10.3345	3.6538	1.0404	4.6942		6,008.2814	6,008.2814	1.9432		6,056.8614

Unmitigated Construction Off-Site

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000
Vendor	0.0163	0.5901	0.2320	2.7200e-003	0.1025	4.1400e-003	0.1066	0.0295	3.9600e-003	0.0335		291.7738	291.7738	7.2600e-003	0.0431	304.7860
Worker	0.0614	0.0354	0.5037	1.6400e-003	0.2236	9.6000e-004	0.2245	0.0593	8.8000e-004	0.0602		172.6080	172.6080	3.6200e-003	4.0100e-003	173.8948
Total	0.0777	0.6255	0.7357	4.3600e-003	0.3261	5.1000e-003	0.3312	0.0888	4.8400e-003	0.0936		464.3817	464.3817	0.0109	0.0471	478.6808

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					3.4099	0.0000	3.4099	1.3537	0.0000	1.3537			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	1.0110	19.2707	36.7226	0.0621	3.4099	0.1015	3.5115	1.3537	0.1015	1.4553	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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					

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0163	0.5901	0.2320	2.7200e-003	0.0959	4.1400e-003	0.1001	0.0279	3.9600e-003	0.0319	291.7738	291.7738	7.2600e-003	0.0431	304.7860	
Worker	0.0614	0.0354	0.5037	1.6400e-003	0.2061	9.6000e-004	0.2070	0.0550	8.8000e-004	0.0559	172.6080	172.6080	3.6200e-003	4.0100e-003	173.8948	
Total	0.0777	0.6255	0.7357	4.3600e-003	0.3020	5.1000e-003	0.3071	0.0829	4.8400e-003	0.0877	464.3817	464.3817	0.0109	0.0471	478.6808	

3.5 Building Construction - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1163	4.2045	1.6529	0.0194	0.7304	0.0295	0.7598	0.2103	0.0282	0.2385		2,078.8880	2,078.8880	0.0518	0.3068	2,171.6005
Worker	0.8992	0.5189	7.3797	0.0241	3.2751	0.0140	3.2891	0.8686	0.0129	0.8815		2,528.7068	2,528.7068	0.0531	0.0588	2,547.5585
Total	1.0154	4.7233	9.0326	0.0435	4.0054	0.0435	4.0489	1.0789	0.0411	1.1200		4,607.5948	4,607.5948	0.1048	0.3656	4,719.1590

**Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	1.2033	12.5209	16.3797	0.0270		0.3989	0.3989		0.3789	0.3789	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.2033	12.5209	16.3797	0.0270		0.3989	0.3989		0.3789	0.3789	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1163	4.2045	1.6529	0.0194	0.6836	0.0295	0.7130	0.1988	0.0282	0.2270		2,078.8880	2,078.8880	0.0518	0.3068	2,171.6005
Worker	0.8932	0.5189	7.3797	0.0241	3.0188	0.0140	3.0328	0.8057	0.0129	0.8186		2,528.7068	2,528.7068	0.0531	0.0588	2,547.5585
Total	1.0154	4.7233	9.0326	0.0435	3.7024	0.0435	3.7459	1.0045	0.0411	1.0456		4,607.5948	4,607.5948	0.1048	0.3656	4,719.1590

3.5 Building Construction - 2027

Unmitigated Construction On-Site

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1143	4.1732	1.6340	0.0190	0.7303	0.0293	0.7596	0.2103	0.0280	0.2383		2,034.9648	2,034.9648	0.0500	0.3002	2,125.6623
Worker	0.8442	0.4709	6.9518	0.0234	3.2751	0.0132	3.2882	0.8686	0.0121	0.8807		2,473.8978	2,473.8978	0.0483	0.0556	2,491.6897
Total	0.9585	4.6441	8.5858	0.0424	4.0054	0.0425	4.0479	1.0789	0.0402	1.1190		4,508.8626	4,508.8626	0.0983	0.3557	4,617.3320

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	1.2033	12.5209	16.3797	0.0270		0.3989	0.3989		0.3789	0.3789	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.2033	12.5209	16.3797	0.0270		0.3989	0.3989		0.3789	0.3789	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

**Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	0.0000
Vendor	0.1143	4.1732	1.6340	0.0190	0.6835	0.0293	0.7128	0.1988	0.0280	0.2268		2,034.9648	2,034.9648	0.0500	0.3002	2,125.6623
Worker	0.8442	0.4709	6.9518	0.0234	3.0188	0.0132	3.0320	0.8057	0.0121	0.8178		2,473.8978	2,473.8978	0.0483	0.0556	2,491.6697
Total	0.9585	4.6441	8.5858	0.0424	3.7023	0.0425	3.7448	1.0045	0.0402	1.0446		4,508.8626	4,508.8626	0.0983	0.3557	4,617.3320

3.6 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5762	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Unmitigated Construction Off-Site

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0241	0.3559	1.2000e-003	0.1677	6.8000e-004	0.1683	0.0445	6.2000e-004	0.0451		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599
Total	0.0432	0.0241	0.3559	1.2000e-003	0.1677	6.8000e-004	0.1683	0.0445	6.2000e-004	0.0451		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5762	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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					

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0241	0.3559	1.2000e-003	0.1546	6.8000e-004	0.1552	0.0413	6.2000e-004	0.0419		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599
Total	0.0432	0.0241	0.3559	1.2000e-003	0.1546	6.8000e-004	0.1552	0.0413	6.2000e-004	0.0419		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599

3.7 Architectural Coating - 2027

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	26.2983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	26.4691	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1700	0.0948	1.3999	4.7100e-003	0.6595	2.6600e-003	0.6621	0.1749	2.4400e-003	0.1773		498.1569	498.1569	9.7300e-003	0.0112	501.7355

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1700	0.0948	1.3999	4.7100e-003	0.6595	2.6600e-003	0.6621	0.1749	2.4400e-003	0.1773		498.1569	498.1569	9.7300e-003	0.0112	501.7355
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.2983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	26.4691	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1700	0.0948	1.3999	4.7100e-003	0.6079	2.6600e-003	0.6105	0.1622	2.4400e-003	0.1647		498.1569	498.1569	9.7300e-003	0.0112	501.7355
Total	0.1700	0.0948	1.3999	4.7100e-003	0.6079	2.6600e-003	0.6105	0.1622	2.4400e-003	0.1647		498.1569	498.1569	9.7300e-003	0.0112	501.7355

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P1 - Mitigated
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	144.91	1000sqft	1.21	144,912.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2027

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information received from the College District.

Trips and VMT - See the Construction Phase 1 modeling assumptions worksheet in the AQ/GHG appendix of the DEIR.

Demolition -

Architectural Coating - Based on new propose parking lot areas. Includes mitigation.

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186. Mitigation for Tier 4 Interim

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	33,124.00	19,284.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LotAcreage	3.33	1.21
tblTripsAndVMT	HaulingTripNumber	292.00	294.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.9789	28.5684	27.0668	0.0704	19.9095	1.1360	20.9992	10.1706	1.0453	11.1732	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571
2027	26.6391	17.1138	24.6705	0.0693	4.0054	0.5700	4.5754	1.0789	0.5364	1.6153	0.0000	7,065.3370	7,065.3370	0.7162	0.3557	7,188.8301
Maximum	26.6391	28.5684	27.0668	0.0704	19.9095	1.1360	20.9992	10.1706	1.0453	11.1732	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571

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
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Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Year	lb/day										lb/day					
2026	2.2188	19.8962	37.4583	0.0704	8.6368	0.4424	8.7018	4.3822	0.4200	4.4471	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571
2027	26.6391	17.1650	24.9656	0.0693	3.7023	0.4413	4.1437	1.0045	0.4191	1.4235	0.0000	7,065.3370	7,065.3370	0.7162	0.3557	7,188.8301
Maximum	26.6391	19.8962	37.4583	0.0704	8.6368	0.4424	8.7018	4.3822	0.4200	4.4471	0.0000	7,164.0692	7,164.0692	1.9541	0.3656	7,290.6571

	ROG	NOx	CO	SO2	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	2.57	18.87	-20.66	0.00	48.40	48.20	49.77	52.12	46.95	54.09	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	Demolition	Demolition	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	2/11/2026	5	10	
3	Grading	Grading	2/12/2026	3/25/2026	5	30	
4	Building Construction	Building Construction	3/26/2026	5/19/2027	5	300	
5	Paving	Paving	5/20/2027	6/16/2027	5	20	
6	Architectural Coating	Architectural Coating	6/17/2027	7/14/2027	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 12.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,368; Non-Residential Outdoor: 72,456; Striped Parking Area: 19,284

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	294.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	293.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Clean Paved Roads

3.2 Demolition - 2026

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					3.1585	0.0000	3.1585	0.4782	0.0000	0.4782			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	3.1585	0.8528	4.0113	0.4782	0.7920	1.2702		3,747.5996	3,747.5996	1.0464		3,773.7606

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	0.0319	1.6750	0.5007	7.7800e-003	0.2574	0.0166	0.2740	0.0706	0.0159	0.0864		847.3517	847.3517	0.0350	0.1343	888.2464
Vendor	4.0800e-003	0.1475	0.0580	6.8000e-004	0.0256	1.0300e-003	0.0267	7.3800e-003	9.9000e-004	8.3700e-003		72.9434	72.9434	1.8200e-003	0.0108	76.1965
Worker	0.0460	0.0266	0.3778	1.2300e-003	0.1677	7.2000e-004	0.1684	0.0445	6.6000e-004	0.0451		129.4560	129.4560	2.7200e-003	3.0100e-003	130.4211
Total	0.0820	1.8491	0.9365	9.6900e-003	0.4507	0.0183	0.4690	0.1224	0.0175	0.1399		1,049.7511	1,049.7511	0.0396	0.1481	1,094.8640

Mitigated Construction On-Site

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3503	0.0000	1.3503	0.2044	0.0000	0.2044			0.0000			0.0000
Off-Road	0.7646	13.5951	24.4601	0.0388		0.1461	0.1461		0.1461	0.1461	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	0.7646	13.5951	24.4601	0.0388	1.3503	0.1461	1.4964	0.2044	0.1461	0.3506	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

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	0.0319	1.6750	0.5007	7.7800e-003	0.2399	0.0166	0.2565	0.0663	0.0159	0.0822		847.3517	847.3517	0.0350	0.1343	888.2464
Vendor	4.0800e-003	0.1475	0.0580	6.8000e-004	0.0240	1.0300e-003	0.0250	6.9800e-003	9.9000e-004	7.9700e-003		72.9434	72.9434	1.8200e-003	0.0108	76.1965
Worker	0.0460	0.0266	0.3778	1.2300e-003	0.1546	7.2000e-004	0.1553	0.0413	6.6000e-004	0.0419		129.4560	129.4560	2.7200e-003	3.0100e-003	130.4211
Total	0.0820	1.8491	0.9365	9.6900e-003	0.4185	0.0183	0.4368	0.1145	0.0175	0.1320		1,049.7511	1,049.7511	0.0396	0.1481	1,094.8640

3.3 Site Preparation - 2026

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					

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000		0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931	3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.6570	1.0868	20.7438	10.1025	0.9999	11.1023		3,689.1037	3,689.1037	1.1931	3,718.9320

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	0.0000
Vendor	8.1600e-003	0.2951	0.1160	1.3600e-003	0.0513	2.0700e-003	0.0533	0.0148	1.9800e-003	0.0167		145.8869	145.8869	3.6300e-003	0.0215	152.3930
Worker	0.0552	0.0319	0.4634	1.4800e-003	0.2012	8.6000e-004	0.2021	0.0534	7.9000e-004	0.0542		155.3472	155.3472	3.2600e-003	3.6100e-003	156.5053
Total	0.0634	0.3269	0.5694	2.8400e-003	0.2525	2.9300e-003	0.2554	0.0681	2.7700e-003	0.0709		301.2341	301.2341	6.8900e-003	0.0251	308.8983

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.6967	12.1620	22.9600	0.0381	8.4034	0.0621	8.4655	4.3188	0.0621	4.3809	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

**Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	0.0000
Vendor	8.1600e-003	0.2951	0.1160	1.3600e-003	0.0480	2.0700e-003	0.0500	0.0140	1.9800e-003	0.0159		145.8869	145.8869	3.6300e-003	0.0215	152.3930
Worker	0.0552	0.0319	0.4534	1.4800e-003	0.1855	8.6000e-004	0.1863	0.0495	7.9000e-004	0.0503		155.3472	155.3472	3.2600e-003	3.6100e-003	156.5053
Total	0.0634	0.3269	0.5694	2.8400e-003	0.2334	2.9300e-003	0.2364	0.0634	2.7700e-003	0.0662		301.2341	301.2341	6.8900e-003	0.0251	308.8983

3.4 Grading - 2026

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	9.2036	1.1309	10.3345	3.6538	1.0404	4.6942		6,008.2814	6,008.2814	1.9432		6,056.8614

Unmitigated Construction Off-Site

**Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000
Vendor	0.0163	0.5901	0.2320	2.7200e-003	0.1025	4.1400e-003	0.1066	0.0295	3.9600e-003	0.0335		291.7738	291.7738	7.2600e-003	0.0431	304.7860
Worker	0.0614	0.0354	0.5037	1.6400e-003	0.2236	9.6000e-004	0.2245	0.0593	8.8000e-004	0.0602		172.6080	172.6080	3.6200e-003	4.0100e-003	173.8948
Total	0.0777	0.6255	0.7357	4.3600e-003	0.3261	5.1000e-003	0.3312	0.0888	4.8400e-003	0.0936		464.3817	464.3817	0.0109	0.0471	478.6808

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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	1.0110	19.2707	36.7226	0.0621	3.9345	0.1015	4.0361	1.5620	0.1015	1.6635	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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					

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0163	0.5901	0.2320	2.7200e-003	0.0959	4.1400e-003	0.1001	0.0279	3.9600e-003	0.0319	291.7738	291.7738	7.2600e-003	0.0431	304.7860	
Worker	0.0614	0.0354	0.5037	1.6400e-003	0.2061	9.6000e-004	0.2070	0.0550	8.8000e-004	0.0559	172.6080	172.6080	3.6200e-003	4.0100e-003	173.8948	
Total	0.0777	0.6255	0.7357	4.3600e-003	0.3020	5.1000e-003	0.3071	0.0829	4.8400e-003	0.0877	464.3817	464.3817	0.0109	0.0471	478.6808	

3.5 Building Construction - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1163	4.2045	1.6529	0.0194	0.7304	0.0295	0.7598	0.2103	0.0282	0.2385		2,078.8880	2,078.8880	0.0518	0.3068	2,171.6005
Worker	0.8992	0.5189	7.3797	0.0241	3.2751	0.0140	3.2891	0.8686	0.0129	0.8815		2,528.7068	2,528.7068	0.0531	0.0588	2,547.5585
Total	1.0154	4.7233	9.0326	0.0435	4.0054	0.0435	4.0489	1.0789	0.0411	1.1200		4,607.5948	4,607.5948	0.1048	0.3656	4,719.1590

**Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	1.2033	12.5209	16.3797	0.0270		0.3989	0.3989		0.3789	0.3789	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.2033	12.5209	16.3797	0.0270		0.3989	0.3989		0.3789	0.3789	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1163	4.2045	1.6529	0.0194	0.6836	0.0295	0.7130	0.1988	0.0282	0.2270		2,078.8880	2,078.8880	0.0518	0.3068	2,171.6005
Worker	0.8932	0.5189	7.3797	0.0241	3.0188	0.0140	3.0328	0.8057	0.0129	0.8186		2,528.7068	2,528.7068	0.0531	0.0588	2,547.5585
Total	1.0154	4.7233	9.0326	0.0435	3.7024	0.0435	3.7459	1.0045	0.0411	1.0456		4,607.5948	4,607.5948	0.1048	0.3656	4,719.1590

3.5 Building Construction - 2027

Unmitigated Construction On-Site

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

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	0.0000
Vendor	0.1143	4.1732	1.6340	0.0190	0.7303	0.0293	0.7596	0.2103	0.0280	0.2383		2,034.9648	2,034.9648	0.0500	0.3002	2,125.6623
Worker	0.8442	0.4709	6.9518	0.0234	3.2751	0.0132	3.2882	0.8686	0.0121	0.8807		2,473.8978	2,473.8978	0.0483	0.0556	2,491.6897
Total	0.9585	4.6441	8.5858	0.0424	4.0054	0.0425	4.0479	1.0789	0.0402	1.1190		4,508.8626	4,508.8626	0.0983	0.3557	4,617.3320

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	1.2033	12.5209	16.3797	0.0270		0.3989	0.3989		0.3789	0.3789	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.2033	12.5209	16.3797	0.0270		0.3989	0.3989		0.3789	0.3789	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

**Construction P1 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	0.0000
Vendor	0.1143	4.1732	1.6340	0.0190	0.6835	0.0293	0.7128	0.1988	0.0280	0.2268		2,034.9648	2,034.9648	0.0500	0.3002	2,125.6623
Worker	0.8442	0.4709	6.9518	0.0234	3.0188	0.0132	3.0320	0.8057	0.0121	0.8178		2,473.8978	2,473.8978	0.0483	0.0556	2,491.6697
Total	0.9585	4.6441	8.5858	0.0424	3.7023	0.0425	3.7448	1.0045	0.0402	1.0446		4,508.8626	4,508.8626	0.0983	0.3557	4,617.3320

3.6 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5762	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Unmitigated Construction Off-Site

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0241	0.3559	1.2000e-003	0.1677	6.8000e-004	0.1683	0.0445	6.2000e-004	0.0451		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599
Total	0.0432	0.0241	0.3559	1.2000e-003	0.1677	6.8000e-004	0.1683	0.0445	6.2000e-004	0.0451		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	1.6611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5762	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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					

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0241	0.3559	1.2000e-003	0.1546	6.8000e-004	0.1552	0.0413	6.2000e-004	0.0419		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599
Total	0.0432	0.0241	0.3559	1.2000e-003	0.1546	6.8000e-004	0.1552	0.0413	6.2000e-004	0.0419		126.6501	126.6501	2.4700e-003	2.8500e-003	127.5599

3.7 Architectural Coating - 2027

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	26.2983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	26.4691	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1700	0.0948	1.3999	4.7100e-003	0.6595	2.6600e-003	0.6621	0.1749	2.4400e-003	0.1773		498.1569	498.1569	9.7300e-003	0.0112	501.7355

Construction P1 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1700	0.0948	1.3999	4.7100e-003	0.6595	2.6600e-003	0.6621	0.1749	2.4400e-003	0.1773		498.1569	498.1569	9.7300e-003	0.0112	501.7355
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.2983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	26.4691	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1700	0.0948	1.3999	4.7100e-003	0.6079	2.6600e-003	0.6105	0.1622	2.4400e-003	0.1647		498.1569	498.1569	9.7300e-003	0.0112	501.7355
Total	0.1700	0.0948	1.3999	4.7100e-003	0.6079	2.6600e-003	0.6105	0.1622	2.4400e-003	0.1647		498.1569	498.1569	9.7300e-003	0.0112	501.7355

Construction P1 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P1 - Mitigated
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	144.91	1000sqft	1.21	144,912.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2027

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information received from the College District.

Trips and VMT - See the Construction Phase 1 modeling assumptions worksheet in the AQ/GHG appendix of the DEIR.

Demolition -

Architectural Coating - Based on new propose parking lot areas. Includes mitigation.

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186. Mitigation for Tier 4 Interim

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	33,124.00	19,284.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LotAcreage	3.33	1.21
tblTripsAndVMT	HaulingTripNumber	292.00	294.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

2.0 Emissions Summary

**2.1 Overall Construction
Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.3118	2.4954	3.2597	8.8100e-003	0.6735	0.0886	0.7621	0.2196	0.0828	0.3023	0.0000	807.2010	807.2010	0.1063	0.0356	820.4570
2027	0.4044	0.9458	1.4187	3.7700e-003	0.2027	0.0330	0.2357	0.0547	0.0310	0.0856	0.0000	347.6788	347.6788	0.0382	0.0162	353.4508
Maximum	0.4044	2.4954	3.2597	8.8100e-003	0.6735	0.0886	0.7621	0.2196	0.0828	0.3023	0.0000	807.2010	807.2010	0.1063	0.0356	820.4570

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
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Construction P1 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Year	tons/yr										MT/yr					
2026	0.2448	2.2491	3.5209	8.8100e-003	0.4743	0.0480	0.5223	0.1428	0.0458	0.1885	0.0000	807.2005	807.2005	0.1063	0.0356	820.4565
2027	0.3963	0.9484	1.4333	3.7700e-003	0.1874	0.0266	0.2140	0.0509	0.0251	0.0760	0.0000	347.6786	347.6786	0.0382	0.0162	353.4506
Maximum	0.3963	2.2491	3.5209	8.8100e-003	0.4743	0.0480	0.5223	0.1428	0.0458	0.1885	0.0000	807.2005	807.2005	0.1063	0.0356	820.4565

	ROG	NOx	CO	SO2	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	10.49	7.08	-5.89	0.00	24.48	38.62	26.20	29.38	37.66	31.81	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	1-1-2026	3-31-2026	0.8878	0.5856
2	4-1-2026	6-30-2026	0.6293	0.6257
3	7-1-2026	9-30-2026	0.6362	0.6325
4	10-1-2026	12-31-2026	0.6432	0.6395
5	1-1-2027	3-31-2027	0.6248	0.6212
6	4-1-2027	6-30-2027	0.5881	0.5862
7	7-1-2027	9-30-2027	0.1394	0.1394
		Highest	0.8878	0.6395

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	1/1/2026	1/28/2026	5	20	
2	Site Preparation	Site Preparation	1/29/2026	2/11/2026	5	10	
3	Grading	Grading	2/12/2026	3/25/2026	5	30	
4	Building Construction	Building Construction	3/26/2026	5/19/2027	5	300	
5	Paving	Paving	5/20/2027	6/16/2027	5	20	
6	Architectural Coating	Architectural Coating	6/17/2027	7/14/2027	5	20	

Acres of Grading (Site Preparation Phase): 15

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 90

Acres of Paving: 12.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 217,368; Non-Residential Outdoor: 72,456; Striped Parking Area: 19,284

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	294.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	9	293.00	114.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	59.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0316	0.0000	0.0316	4.7800e-003	0.0000	4.7800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1920	0.1942	3.9000e-004		8.5300e-003	8.5300e-003		7.9200e-003	7.9200e-003	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350
Total	0.0209	0.1920	0.1942	3.9000e-004	0.0316	8.5300e-003	0.0401	4.7800e-003	7.9200e-003	0.0127	0.0000	33.9977	33.9977	9.4900e-003	0.0000	34.2350

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	3.3000e-004	0.0168	4.9600e-003	8.0000e-005	2.5300e-003	1.7000e-004	2.7000e-003	7.0000e-004	1.6000e-004	8.5000e-004	0.0000	7.6802	7.6802	3.2000e-004	1.2200e-003	8.0509

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	4.0000e-005	1.4700e-003	5.7000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6608	0.6608	2.0000e-005	1.0000e-004	0.6903
Worker	4.2000e-004	2.8000e-004	3.9600e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.1975	1.1975	2.0000e-005	3.0000e-005	1.2066
Total	7.9000e-004	0.0186	9.4900e-003	1.0000e-004	4.4200e-003	1.9000e-004	4.6100e-003	1.2100e-003	1.8000e-004	1.3700e-003	0.0000	9.5385	9.5385	3.6000e-004	1.3500e-003	9.9477

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0117	0.0000	0.0117	1.7700e-003	0.0000	1.7700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6500e-003	0.1360	0.2446	3.9000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349
Total	7.6500e-003	0.1360	0.2446	3.9000e-004	0.0117	1.4600e-003	0.0132	1.7700e-003	1.4600e-003	3.2300e-003	0.0000	33.9976	33.9976	9.4900e-003	0.0000	34.2349

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	3.3000e-004	0.0168	4.9600e-003	8.0000e-005	2.3600e-003	1.7000e-004	2.5300e-003	6.5000e-004	1.6000e-004	8.1000e-004	0.0000	7.6802	7.6802	3.2000e-004	1.2200e-003	8.0509
Vendor	4.0000e-005	1.4700e-003	5.7000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6608	0.6608	2.0000e-005	1.0000e-004	0.6903
Worker	4.2000e-004	2.8000e-004	3.9600e-003	1.0000e-005	1.5200e-003	1.0000e-005	1.5200e-003	4.1000e-004	1.0000e-005	4.1000e-004	0.0000	1.1975	1.1975	2.0000e-005	3.0000e-005	1.2066
Total	7.9000e-004	0.0186	9.4900e-003	1.0000e-004	4.1200e-003	1.9000e-004	4.3000e-003	1.1300e-003	1.8000e-004	1.3000e-003	0.0000	9.5385	9.5385	3.6000e-004	1.3500e-003	9.9477

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2026
Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1262	0.0896	1.9000e-004		5.4300e-003	5.4300e-003		5.0000e-003	5.0000e-003	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
Total	0.0124	0.1262	0.0896	1.9000e-004	0.0983	5.4300e-003	0.1037	0.0505	5.0000e-003	0.0555	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688

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	4.0000e-005	1.4700e-003	5.7000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6608	0.6608	2.0000e-005	1.0000e-004	0.6903
Worker	2.5000e-004	1.7000e-004	2.3800e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7185	0.7185	1.0000e-005	2.0000e-005	0.7239
Total	2.9000e-004	1.6400e-003	2.9500e-003	2.0000e-005	1.2400e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.5000e-004	0.0000	1.3793	1.3793	3.0000e-005	1.2000e-004	1.4142

Mitigated Construction On-Site

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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					
Fugitive Dust					0.0364	0.0000	0.0364	0.0187	0.0000	0.0187	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4800e-003	0.0608	0.1148	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
Total	3.4800e-003	0.0608	0.1148	1.9000e-004	0.0364	3.1000e-004	0.0367	0.0187	3.1000e-004	0.0190	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688

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	4.0000e-005	1.4700e-003	5.7000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6608	0.6608	2.0000e-005	1.0000e-004	0.6903
Worker	2.5000e-004	1.7000e-004	2.3800e-003	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7185	0.7185	1.0000e-005	2.0000e-005	0.7239
Total	2.9000e-004	1.6400e-003	2.9500e-003	2.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.3000e-004	0.0000	1.3793	1.3793	3.0000e-005	1.2000e-004	1.4142

3.4 Grading - 2026

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					

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Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0435	0.4191	0.3950	9.3000e-004		0.0170	0.0170		0.0156	0.0156	0.0000	81.7593	81.7593	0.0264	0.0000	82.4204
Total	0.0435	0.4191	0.3950	9.3000e-004	0.1381	0.0170	0.1550	0.0548	0.0156	0.0704	0.0000	81.7593	81.7593	0.0264	0.0000	82.4204

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5000e-004	8.8100e-003	3.4200e-003	4.0000e-005	1.5100e-003	6.0000e-005	1.5800e-003	4.4000e-004	6.0000e-005	5.0000e-004	0.0000	3.9647	3.9647	1.0000e-004	5.9000e-004	4.1415
Worker	8.5000e-004	5.6000e-004	7.9200e-003	3.0000e-005	3.2900e-003	1.0000e-005	3.3000e-003	8.7000e-004	1.0000e-005	8.9000e-004	0.0000	2.3951	2.3951	5.0000e-005	6.0000e-005	2.4131
Total	1.1000e-003	9.3700e-003	0.0113	7.0000e-005	4.8000e-003	7.0000e-005	4.8800e-003	1.3100e-003	7.0000e-005	1.3900e-003	0.0000	6.3598	6.3598	1.5000e-004	6.5000e-004	6.5547

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0512	0.0000	0.0512	0.0203	0.0000	0.0203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.2891	0.5508	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	81.7592	81.7592	0.0264	0.0000	82.4203
Total	0.0152	0.2891	0.5508	9.3000e-004	0.0512	1.5200e-003	0.0527	0.0203	1.5200e-003	0.0218	0.0000	81.7592	81.7592	0.0264	0.0000	82.4203

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5000e-004	8.8100e-003	3.4200e-003	4.0000e-005	1.4200e-003	6.0000e-005	1.4800e-003	4.1000e-004	6.0000e-005	4.7000e-004	0.0000	3.9647	3.9647	1.0000e-004	5.9000e-004	4.1415
Worker	8.5000e-004	5.6000e-004	7.9200e-003	3.0000e-005	3.0300e-003	1.0000e-005	3.0500e-003	8.1000e-004	1.0000e-005	8.2000e-004	0.0000	2.3951	2.3951	5.0000e-005	6.0000e-005	2.4131
Total	1.1000e-003	9.3700e-003	0.0113	7.0000e-005	4.4500e-003	7.0000e-005	4.5300e-003	1.2200e-003	7.0000e-005	1.2900e-003	0.0000	6.3598	6.3598	1.5000e-004	6.5000e-004	6.5547

3.5 Building Construction - 2026

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	0.1374	1.2532	1.6165	2.7100e-003		0.0530	0.0530		0.0499	0.0499	0.0000	233.0791	233.0791	0.0548	0.0000	234.4488
Total	0.1374	1.2532	1.6165	2.7100e-003		0.0530	0.0530		0.0499	0.0499	0.0000	233.0791	233.0791	0.0548	0.0000	234.4488

Unmitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	0.0122	0.4207	0.1635	1.9500e-003	0.0723	2.9600e-003	0.0752	0.0209	2.8300e-003	0.0237	0.0000	189.2644	189.2644	4.7400e-003	0.0279	197.7061
Worker	0.0832	0.0546	0.7773	2.4700e-003	0.3229	1.4100e-003	0.3243	0.0858	1.3000e-003	0.0871	0.0000	235.0895	235.0895	4.9000e-003	5.5300e-003	236.8614
Total	0.0954	0.4754	0.9408	4.4200e-003	0.3951	4.3700e-003	0.3995	0.1066	4.1300e-003	0.1107	0.0000	424.3539	424.3539	9.6400e-003	0.0335	434.5675

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	0.1209	1.2584	1.6462	2.7100e-003		0.0401	0.0401		0.0381	0.0381	0.0000	233.0788	233.0788	0.0548	0.0000	234.4485
Total	0.1209	1.2584	1.6462	2.7100e-003		0.0401	0.0401		0.0381	0.0381	0.0000	233.0788	233.0788	0.0548	0.0000	234.4485

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	0.0122	0.4207	0.1635	1.9500e-003	0.0677	2.9600e-003	0.0706	0.0197	2.8300e-003	0.0226	0.0000	189.2644	189.2644	4.7400e-003	0.0279	197.7061

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Worker	0.0832	0.0546	0.7773	2.4700e-003	0.2977	1.4100e-003	0.2991	0.0796	1.3000e-003	0.0809	0.0000	235.0895	235.0895	4.9000e-003	5.5300e-003	236.8614
Total	0.0954	0.4754	0.9408	4.4200e-003	0.3653	4.3700e-003	0.3697	0.0993	4.1300e-003	0.1034	0.0000	424.3539	424.3539	9.6400e-003	0.0335	434.5675

3.5 Building Construction - 2027

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	0.0677	0.6173	0.7962	1.3300e-003		0.0261	0.0261		0.0246	0.0246	0.0000	114.8001	114.8001	0.0270	0.0000	115.4748
Total	0.0677	0.6173	0.7962	1.3300e-003		0.0261	0.0261		0.0246	0.0246	0.0000	114.8001	114.8001	0.0270	0.0000	115.4748

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	5.9000e-003	0.2057	0.0796	9.4000e-004	0.0356	1.4500e-003	0.0370	0.0103	1.3800e-003	0.0117	0.0000	91.2491	91.2491	2.2600e-003	0.0135	95.3165
Worker	0.0384	0.0244	0.3606	1.1800e-003	0.1590	6.5000e-004	0.1597	0.0422	6.0000e-004	0.0428	0.0000	113.2774	113.2774	2.2000e-003	2.5800e-003	114.1000
Total	0.0443	0.2301	0.4402	2.1200e-003	0.1946	2.1000e-003	0.1967	0.0525	1.9800e-003	0.0545	0.0000	204.5265	204.5265	4.4600e-003	0.0160	209.4165

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0596	0.6198	0.8108	1.3300e-003		0.0197	0.0197		0.0188	0.0188	0.0000	114.8000	114.8000	0.0270	0.0000	115.4746
Total	0.0596	0.6198	0.8108	1.3300e-003		0.0197	0.0197		0.0188	0.0188	0.0000	114.8000	114.8000	0.0270	0.0000	115.4746

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	5.9000e-003	0.2057	0.0796	9.4000e-004	0.0333	1.4500e-003	0.0348	9.7200e-003	1.3800e-003	0.0111	0.0000	91.2491	91.2491	2.2600e-003	0.0135	95.3165
Worker	0.0384	0.0244	0.3606	1.1800e-003	0.1466	6.5000e-004	0.1473	0.0392	6.0000e-004	0.0398	0.0000	113.2774	113.2774	2.2000e-003	2.5800e-003	114.1000
Total	0.0443	0.2301	0.4402	2.1200e-003	0.1799	2.1000e-003	0.1820	0.0489	1.9800e-003	0.0509	0.0000	204.5265	204.5265	4.4600e-003	0.0160	209.4165

3.6 Paving - 2027

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					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-Road	9.1500e-003	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0193	20.0193	6.4700e-003	0.0000	20.1811
Paving	0.0166					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0258	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0193	20.0193	6.4700e-003	0.0000	20.1811

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	4.0000e-004	2.5000e-004	3.7300e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.1716	1.1716	2.0000e-005	3.0000e-005	1.1801
Total	4.0000e-004	2.5000e-004	3.7300e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.1716	1.1716	2.0000e-005	3.0000e-005	1.1801

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	9.1500e-003	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0192	20.0192	6.4700e-003	0.0000	20.1811
Paving	0.0166					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0258	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0192	20.0192	6.4700e-003	0.0000	20.1811

**Construction P1 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	4.0000e-004	2.5000e-004	3.7300e-003	1.0000e-005	1.5200e-003	1.0000e-005	1.5200e-003	4.1000e-004	1.0000e-005	4.1000e-004	0.0000	1.1716	1.1716	2.0000e-005	3.0000e-005	1.1801
Total	4.0000e-004	2.5000e-004	3.7300e-003	1.0000e-005	1.5200e-003	1.0000e-005	1.5200e-003	4.1000e-004	1.0000e-005	4.1000e-004	0.0000	1.1716	1.1716	2.0000e-005	3.0000e-005	1.1801

3.7 Architectural Coating - 2027

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	0.2630					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	0.2647	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567

Unmitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	1.5600e-003	9.9000e-004	0.0147	5.0000e-005	6.4700e-003	3.0000e-005	6.5000e-003	1.7200e-003	2.0000e-005	1.7400e-003	0.0000	4.6081	4.6081	9.0000e-005	1.0000e-004	4.6416
Total	1.5600e-003	9.9000e-004	0.0147	5.0000e-005	6.4700e-003	3.0000e-005	6.5000e-003	1.7200e-003	2.0000e-005	1.7400e-003	0.0000	4.6081	4.6081	9.0000e-005	1.0000e-004	4.6416

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	0.2630					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	0.2647	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567

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					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.5600e-003	9.9000e-004	0.0147	5.0000e-005	5.9600e-003	3.0000e-005	5.9900e-003	1.5900e-003	2.0000e-005	1.6200e-003	0.0000	4.6081	4.6081	9.0000e-005	1.0000e-004	4.6416
Total	1.5600e-003	9.9000e-004	0.0147	5.0000e-005	5.9600e-003	3.0000e-005	5.9900e-003	1.5900e-003	2.0000e-005	1.6200e-003	0.0000	4.6081	4.6081	9.0000e-005	1.0000e-004	4.6416

Construction P1 - Mitigated
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.07	-0.00	-0.01	0.00	0.23	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.61	0.27	-0.25	0.00	0.81	0.80	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.64	0.30	-0.38	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.70	0.51	-0.27	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	Tier 4 Interim	5	5	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	Tier 4 Interim	1	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	6	6	No Change	0.00
Scrapers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	9	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Construction P1 - Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	1.71000E-003	1.14600E-002	1.80900E-002	3.00000E-005	5.20000E-004	5.20000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.40000E-004	0.00000E+000	2.55674E+000
Concrete/Industrial Saws	2.95000E-003	2.26900E-002	3.64500E-002	6.00000E-005	9.30000E-004	9.30000E-004	0.00000E+000	5.37657E+000	5.37657E+000	2.40000E-004	0.00000E+000	5.38248E+000
Cranes	4.10600E-002	4.15790E-001	2.27910E-001	7.60000E-004	1.76700E-002	1.62600E-002	0.00000E+000	6.65383E+001	6.65383E+001	2.15200E-002	0.00000E+000	6.70763E+001
Excavators	1.00300E-002	7.33000E-002	1.95560E-001	3.10000E-004	3.59000E-003	3.31000E-003	0.00000E+000	2.72339E+001	2.72339E+001	8.81000E-003	0.00000E+000	2.74541E+001
Forklifts	3.91000E-002	3.68340E-001	5.10190E-001	6.90000E-004	1.97200E-002	1.81400E-002	0.00000E+000	6.04311E+001	6.04311E+001	1.95400E-002	0.00000E+000	6.09197E+001
Generator Sets	3.99600E-002	3.59320E-001	5.48920E-001	9.90000E-004	1.43100E-002	1.43100E-002	0.00000E+000	8.47811E+001	8.47811E+001	3.13000E-003	0.00000E+000	8.48594E+001
Graders	4.67000E-003	5.18500E-002	2.39100E-002	1.00000E-004	1.67000E-003	1.54000E-003	0.00000E+000	8.71223E+000	8.71223E+000	2.82000E-003	0.00000E+000	8.78268E+000
Pavers	3.48000E-003	3.16600E-002	5.79200E-002	9.00000E-005	1.48000E-003	1.36000E-003	0.00000E+000	8.25526E+000	8.25526E+000	2.67000E-003	0.00000E+000	8.32201E+000
Paving Equipment	2.94000E-003	2.52900E-002	5.09300E-002	8.00000E-005	1.25000E-003	1.15000E-003	0.00000E+000	7.15437E+000	7.15437E+000	2.31000E-003	0.00000E+000	7.21222E+000
Rollers	2.74000E-003	2.88600E-002	3.69300E-002	5.00000E-005	1.45000E-003	1.34000E-003	0.00000E+000	4.60962E+000	4.60962E+000	1.49000E-003	0.00000E+000	4.64689E+000
Rubber Tired Dozers	3.24000E-002	3.31560E-001	1.49890E-001	4.30000E-004	1.45100E-002	1.33500E-002	0.00000E+000	3.75103E+001	3.75103E+001	1.21300E-002	0.00000E+000	3.78138E+001
Scrapers	2.01500E-002	1.91120E-001	1.61420E-001	4.50000E-004	7.52000E-003	6.92000E-003	0.00000E+000	3.99564E+001	3.99564E+001	1.29200E-002	0.00000E+000	4.02795E+001
Tractors/Loaders/Backhoes	5.86300E-002	5.92450E-001	9.89410E-001	1.38000E-003	2.40100E-002	2.20900E-002	0.00000E+000	1.21597E+002	1.21597E+002	3.93300E-002	0.00000E+000	1.22580E+002
Welders	3.29700E-002	2.01310E-001	2.47750E-001	3.80000E-004	6.13000E-003	6.13000E-003	0.00000E+000	2.82331E+001	2.82331E+001	2.68000E-003	0.00000E+000	2.83002E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Air Compressors	1.71000E-003	1.14600E-002	1.80900E-002	3.00000E-005	5.20000E-004	5.20000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.40000E-004	0.00000E+000	2.55673E+000
Concrete/Industrial Saws	2.95000E-003	2.26900E-002	3.64500E-002	6.00000E-005	9.30000E-004	9.30000E-004	0.00000E+000	5.37657E+000	5.37657E+000	2.40000E-004	0.00000E+000	5.38248E+000
Cranes	4.10600E-002	4.15790E-001	2.27910E-001	7.60000E-004	1.76700E-002	1.62600E-002	0.00000E+000	6.65382E+001	6.65382E+001	2.15200E-002	0.00000E+000	6.70762E+001
Excavators	3.81000E-003	1.36600E-001	2.35080E-001	3.10000E-004	5.10000E-004	5.10000E-004	0.00000E+000	2.72339E+001	2.72339E+001	8.81000E-003	0.00000E+000	2.74541E+001
Forklifts	3.91000E-002	3.68340E-001	5.10190E-001	6.90000E-004	1.97200E-002	1.81400E-002	0.00000E+000	6.04310E+001	6.04310E+001	1.95400E-002	0.00000E+000	6.09196E+001
Generator Sets	3.99600E-002	3.59320E-001	5.48920E-001	9.90000E-004	1.43100E-002	1.43100E-002	0.00000E+000	8.47810E+001	8.47810E+001	3.13000E-003	0.00000E+000	8.48593E+001
Graders	1.62000E-003	2.61700E-002	5.27400E-002	1.00000E-004	1.60000E-004	1.60000E-004	0.00000E+000	8.71222E+000	8.71222E+000	2.82000E-003	0.00000E+000	8.78267E+000
Pavers	3.48000E-003	3.16600E-002	5.79200E-002	9.00000E-005	1.48000E-003	1.36000E-003	0.00000E+000	8.25525E+000	8.25525E+000	2.67000E-003	0.00000E+000	8.32200E+000
Paving Equipment	2.94000E-003	2.52900E-002	5.09300E-002	8.00000E-005	1.25000E-003	1.15000E-003	0.00000E+000	7.15437E+000	7.15437E+000	2.31000E-003	0.00000E+000	7.21221E+000

Construction P1 - Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Rollers	2.74000E-003	2.88600E-002	3.69300E-002	5.00000E-005	1.45000E-003	1.34000E-003	0.00000E+000	4.60962E+000	4.60962E+000	1.49000E-003	0.00000E+000	4.64689E+000
Rubber Tired Dozers	6.97000E-003	1.12390E-001	2.26530E-001	4.30000E-004	7.00000E-004	7.00000E-004	0.00000E+000	3.75102E+001	3.75102E+001	1.21300E-002	0.00000E+000	3.78135E+001
Scrapers	7.46000E-003	1.20240E-001	2.42340E-001	4.50000E-004	7.50000E-004	7.50000E-004	0.00000E+000	3.99564E+001	3.99564E+001	1.29200E-002	0.00000E+000	4.02794E+001
Tractors/Loaders/Bac hoes	3.09000E-002	6.01100E-001	1.03929E+000	1.38000E-003	2.25000E-003	2.25000E-003	0.00000E+000	1.21596E+002	1.21596E+002	3.93300E-002	0.00000E+000	1.22580E+002
Welders	3.29700E-002	2.01310E-001	2.47750E-001	3.80000E-004	6.13000E-003	6.13000E-003	0.00000E+000	2.82331E+001	2.82331E+001	2.68000E-003	0.00000E+000	2.83001E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.91123E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85788E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20231E-006	1.20231E-006	0.00000E+000	0.00000E+000	1.19267E-006
Excavators	6.20140E-001	-8.63574E-001	-2.02086E-001	0.00000E+000	8.57939E-001	8.45921E-001	0.00000E+000	1.10157E-006	1.10157E-006	0.00000E+000	0.00000E+000	1.09273E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15834E-006	1.15834E-006	0.00000E+000	0.00000E+000	1.31320E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17842E-006
Graders	6.53105E-001	4.95275E-001	-1.20577E+000	0.00000E+000	9.04192E-001	8.96104E-001	0.00000E+000	1.14781E-006	1.14781E-006	0.00000E+000	0.00000E+000	1.13860E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21135E-006	1.21135E-006	0.00000E+000	0.00000E+000	1.20163E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.38654E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	7.84877E-001	6.61027E-001	-5.11308E-001	0.00000E+000	9.51757E-001	9.47566E-001	0.00000E+000	1.33297E-006	1.33297E-006	0.00000E+000	0.00000E+000	1.32228E-006
Scrapers	6.29777E-001	3.70866E-001	-5.01301E-001	0.00000E+000	9.00266E-001	8.91618E-001	0.00000E+000	1.25136E-006	1.25136E-006	0.00000E+000	0.00000E+000	1.24133E-006
Tractors/Loaders/Bac hoes	4.72966E-001	-1.46004E-002	-5.04139E-002	0.00000E+000	9.06289E-001	8.98144E-001	0.00000E+000	1.23359E-006	1.23359E-006	0.00000E+000	0.00000E+000	1.22369E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06258E-006	1.06258E-006	0.00000E+000	0.00000E+000	1.06006E-006

Construction P1 - Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day) 3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.08	0.08
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.59	0.16	0.55	0.15	0.08	0.07
Demolition	Fugitive Dust	0.03	0.00	0.01	0.00	0.63	0.63
Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Grading	Fugitive Dust	0.14	0.05	0.05	0.02	0.63	0.63
Grading	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Site Preparation	Fugitive Dust	0.10	0.05	0.04	0.02	0.63	0.63
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.06

CalEEMod Output: Phase 2 Construction

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Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P2

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	131.59	1000sqft	1.23	131,587.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2031

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information on provided by the College District.

Demolition -

Trips and VMT - See Construction Phase 2 assumptions file in the AQ/GHG appendix of the DEIR.

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.02	1.23
tblTripsAndVMT	HaulingTripNumber	367.00	368.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

2.0 Emissions Summary

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2030	1.4088	10.0754	13.9536	0.0387	7.2328	0.2363	7.4206	3.4655	0.2353	3.6532	0.0000	3,808.0554	3,808.0554	0.1599	0.1647	3,861.1320
2031	122.1374	7.9988	13.7272	0.0316	0.7557	0.1733	0.8900	0.2036	0.1732	0.3376	0.0000	2,994.6746	2,994.6746	0.1115	0.0619	3,015.9020
Maximum	122.1374	10.0754	13.9536	0.0387	7.2328	0.2363	7.4206	3.4655	0.2353	3.6532	0.0000	3,808.0554	3,808.0554	0.1599	0.1647	3,861.1320

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					
2030	1.4088	10.0754	13.9536	0.0387	3.1668	0.2363	3.3546	1.5020	0.2353	1.6897	0.0000	3,808.0554	3,808.0554	0.1599	0.1647	3,861.1320
2031	122.1374	7.9988	13.7272	0.0316	0.6986	0.1733	0.8329	0.1896	0.1732	0.3236	0.0000	2,994.6746	2,994.6746	0.1115	0.0619	3,015.9020
Maximum	122.1374	10.0754	13.9536	0.0387	3.1668	0.2363	3.3546	1.5020	0.2353	1.6897	0.0000	3,808.0554	3,808.0554	0.1599	0.1647	3,861.1320

	ROG	NOx	CO	SO2	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	51.61	0.00	49.61	53.89	0.00	49.55	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2030	8/28/2030	5	20	
2	Site Preparation	Site Preparation	8/29/2030	8/30/2030	5	2	
3	Grading	Grading	8/31/2030	9/5/2030	5	4	
4	Building Construction	Building Construction	9/6/2030	6/12/2031	5	200	
5	Paving	Paving	6/13/2031	6/26/2031	5	10	
6	Architectural Coating	Architectural Coating	6/27/2031	7/10/2031	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 197,381; Non-Residential Outdoor: 65,794; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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	5	13.00	4.00	368.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	55.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2030

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					3.9706	0.0000	3.9706	0.6012	0.0000	0.6012			0.0000			0.0000
Off-Road	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148		2,662.1297	2,662.1297	0.1177		2,665.0713
Total	1.3307	8.0078	12.9685	0.0281	3.9706	0.2148	4.1853	0.6012	0.2148	0.8159		2,662.1297	2,662.1297	0.1177		2,665.0713

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0421	1.9157	0.6083	8.8600e-003	0.3222	0.0200	0.3422	0.0883	0.0192	0.1075		964.0417	964.0417	0.0389	0.1527	1,010.5290
Vendor	4.2000e-003	0.1364	0.0543	6.3000e-004	0.0256	1.0100e-003	0.0266	7.3800e-003	9.6000e-004	8.3400e-003		67.0962	67.0962	1.6300e-003	9.8700e-003	70.0783
Worker	0.0317	0.0155	0.3226	1.0600e-003	0.1453	4.8000e-004	0.1458	0.0385	4.4000e-004	0.0390		114.7878	114.7878	1.6400e-003	2.1000e-003	115.4534
Total	0.0780	2.0677	0.9851	0.0106	0.4931	0.0215	0.5146	0.1343	0.0206	0.1548		1,145.9257	1,145.9257	0.0422	0.1647	1,196.0607

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6974	0.0000	1.6974	0.2570	0.0000	0.2570			0.0000			0.0000
Off-Road	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713
Total	1.3307	8.0078	12.9685	0.0281	1.6974	0.2148	1.9122	0.2570	0.2148	0.4718	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713

Mitigated Construction Off-Site

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0421	1.9157	0.6083	8.8600e-003	0.3003	0.0200	0.3203	0.0830	0.0192	0.1021		964.0417	964.0417	0.0389	0.1527	1,010.5290
Vendor	4.2000e-003	0.1364	0.0543	6.3000e-004	0.0240	1.0100e-003	0.0250	6.9800e-003	9.6000e-004	7.9400e-003		67.0962	67.0962	1.6300e-003	9.8700e-003	70.0783
Worker	0.0317	0.0155	0.3226	1.0600e-003	0.1339	4.8000e-004	0.1344	0.0358	4.4000e-004	0.0362		114.7878	114.7878	1.6400e-003	2.1000e-003	115.4534
Total	0.0780	2.0677	0.9851	0.0106	0.4582	0.0215	0.4797	0.1257	0.0206	0.1463		1,145.9257	1,145.9257	0.0422	0.1647	1,196.0607

3.3 Site Preparation - 2030

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					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567		1,994.6929	1,994.6929	0.0866		1,996.8585
Total	0.9750	4.7401	5.9133	0.0211	6.2662	0.1567	6.4229	3.0041	0.1567	3.1607		1,994.6929	1,994.6929	0.0866		1,996.8585

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					

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.2000e-003	0.1364	0.0543	6.3000e-004	0.0256	1.0100e-003	0.0266	7.3800e-003	9.6000e-004	8.3400e-003	67.0962	67.0962	1.6300e-003	9.8700e-003	70.0783	
Worker	0.0195	9.5400e-003	0.1985	6.5000e-004	0.0894	2.9000e-004	0.0897	0.0237	2.7000e-004	0.0240	70.6387	70.6387	1.0100e-003	1.2900e-003	71.0482	
Total	0.0237	0.1460	0.2528	1.2800e-003	0.1151	1.3000e-003	0.1163	0.0311	1.2300e-003	0.0323	137.7349	137.7349	2.6400e-003	0.0112	141.1265	

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					2.6788	0.0000	2.6788	1.2843	0.0000	1.2843			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585
Total	0.9750	4.7401	5.9133	0.0211	2.6788	0.1567	2.8355	1.2843	0.1567	1.4409	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585

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	0.0000
Vendor	4.2000e-003	0.1364	0.0543	6.3000e-004	0.0240	1.0100e-003	0.0250	6.9800e-003	9.6000e-004	7.9400e-003	67.0962	67.0962	1.6300e-003	9.8700e-003	70.0783	
Worker	0.0195	9.5400e-003	0.1985	6.5000e-004	0.0824	2.9000e-004	0.0827	0.0220	2.7000e-004	0.0223	70.6387	70.6387	1.0100e-003	1.2900e-003	71.0482	

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0237	0.1460	0.2528	1.2800e-003	0.1064	1.3000e-003	0.1077	0.0290	1.2300e-003	0.0302		137.7349	137.7349	2.6400e-003	0.0112	141.1265
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3.4 Grading - 2030

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859		2,388.2741	2,388.2741	0.1046		2,390.8880
Total	1.1771	5.9092	7.9601	0.0252	7.0826	0.1859	7.2685	3.4247	0.1859	3.6107		2,388.2741	2,388.2741	0.1046		2,390.8880

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	0.0000
Vendor	6.3000e-003	0.2046	0.0814	9.4000e-004	0.0384	1.5100e-003	0.0400	0.0111	1.4500e-003	0.0125		100.6444	100.6444	2.4400e-003	0.0148	105.1174
Worker	0.0244	0.0119	0.2481	8.2000e-004	0.1116	3.7000e-004	0.1121	0.0296	3.4000e-004	0.0300		88.2983	88.2983	1.2600e-003	1.6100e-003	88.8103
Total	0.0307	0.2166	0.3295	1.7600e-003	0.1502	1.8800e-003	0.1521	0.0407	1.7900e-003	0.0425		188.9427	188.9427	3.7000e-003	0.0164	193.9277

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859	0.0000	2,388.2741	2,388.2741	0.1046		2,390.8880
Total	1.1771	5.9092	7.9601	0.0252	3.0278	0.1859	3.2137	1.4641	0.1859	1.6500	0.0000	2,388.2741	2,388.2741	0.1046		2,390.8880

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	0.0000
Vendor	6.3000e-003	0.2046	0.0814	9.4000e-004	0.0360	1.5100e-003	0.0375	0.0105	1.4500e-003	0.0119		100.6444	100.6444	2.4400e-003	0.0148	105.1174
Worker	0.0244	0.0119	0.2481	8.2000e-004	0.1030	3.7000e-004	0.1034	0.0275	3.4000e-004	0.0278		88.2983	88.2983	1.2600e-003	1.6100e-003	88.8103
Total	0.0307	0.2166	0.3295	1.7600e-003	0.1390	1.8800e-003	0.1409	0.0380	1.7900e-003	0.0397		188.9427	188.9427	3.7000e-003	0.0164	193.9277

3.5 Building Construction - 2030

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
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Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655

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	0.0000
Vendor	0.0231	0.7503	0.2985	3.4400e-003	0.1409	5.5400e-003	0.1465	0.0406	5.3000e-003	0.0459		369.0293	369.0293	8.9500e-003	0.0543	385.4306
Worker	0.1341	0.0656	1.3647	4.4900e-003	0.6148	2.0200e-003	0.6168	0.1630	1.8600e-003	0.1649		485.6408	485.6408	6.9300e-003	8.8700e-003	488.4565
Total	0.1572	0.8159	1.6632	7.9300e-003	0.7557	7.5600e-003	0.7633	0.2036	7.1600e-003	0.2108		854.6701	854.6701	0.0159	0.0632	873.8872

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0231	0.7503	0.2985	3.4400e-003	0.1319	5.5400e-003	0.1375	0.0384	5.3000e-003	0.0437		369.0293	369.0293	8.9500e-003	0.0543	385.4308
Worker	0.1341	0.0656	1.3647	4.4900e-003	0.5667	2.0200e-003	0.5687	0.1512	1.8600e-003	0.1531		485.6408	485.6408	6.9300e-003	8.8700e-003	488.4565
Total	0.1572	0.8159	1.6632	7.9300e-003	0.6986	7.5600e-003	0.7061	0.1896	7.1600e-003	0.1968		854.6701	854.6701	0.0159	0.0632	873.8872

3.5 Building Construction - 2031

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0230	0.7497	0.2977	3.3900e-003	0.1409	5.4200e-003	0.1464	0.0406	5.1800e-003	0.0458	362.6721	362.6721	8.7300e-003	0.0533	378.7757	
Worker	0.1253	0.0610	1.3195	4.4100e-003	0.6148	1.9000e-003	0.6167	0.1630	1.7500e-003	0.1648	479.3459	479.3459	6.4200e-003	8.5700e-003	482.0608	
Total	0.1483	0.8107	1.6172	7.8000e-003	0.7557	7.3200e-003	0.7630	0.2036	6.9300e-003	0.2106	842.0180	842.0180	0.0152	0.0619	860.8365	

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655

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	0.0000
Vendor	0.0230	0.7497	0.2977	3.3900e-003	0.1319	5.4200e-003	0.1373	0.0384	5.1800e-003	0.0436		362.6721	362.6721	8.7300e-003	0.0533	378.7757
Worker	0.1253	0.0610	1.3195	4.4100e-003	0.5667	1.9000e-003	0.5686	0.1512	1.7500e-003	0.1530		479.3459	479.3459	6.4200e-003	8.5700e-003	482.0608

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1483	0.8107	1.6172	7.8000e-003	0.6986	7.3200e-003	0.7059	0.1896	6.9300e-003	0.1965		842.0180	842.0180	0.0152	0.0619	860.8365
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3.6 Paving - 2031

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	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.9712	1,550.9712	0.0731		1,552.7983
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.9712	1,550.9712	0.0731		1,552.7983

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0296	0.0144	0.3119	1.0400e-003	0.1453	4.5000e-004	0.1458	0.0385	4.1000e-004	0.0390		113.2999	113.2999	1.5200e-003	2.0300e-003	113.9416
Total	0.0296	0.0144	0.3119	1.0400e-003	0.1453	4.5000e-004	0.1458	0.0385	4.1000e-004	0.0390		113.2999	113.2999	1.5200e-003	2.0300e-003	113.9416

Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728	0.0000	1,550.9712	1,550.9712	0.0731		1,552.7983
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728	0.0000	1,550.9712	1,550.9712	0.0731		1,552.7983

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0296	0.0144	0.3119	1.0400e-003	0.1339	4.5000e-004	0.1344	0.0358	4.1000e-004	0.0362		113.2999	113.2999	1.5200e-003	2.0300e-003	113.9416
Total	0.0296	0.0144	0.3119	1.0400e-003	0.1339	4.5000e-004	0.1344	0.0358	4.1000e-004	0.0362		113.2999	113.2999	1.5200e-003	2.0300e-003	113.9416

3.7 Architectural Coating - 2031

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
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Construction P2 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Archit. Coating	121.9816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	122.1124	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0251	0.0122	0.2639	8.8000e-004	0.1230	3.8000e-004	0.1233	0.0326	3.5000e-004	0.0330		95.8692	95.8692	1.2800e-003	1.7100e-003	96.4122
Total	0.0251	0.0122	0.2639	8.8000e-004	0.1230	3.8000e-004	0.1233	0.0326	3.5000e-004	0.0330		95.8692	95.8692	1.2800e-003	1.7100e-003	96.4122

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	121.9816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	122.1124	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Construction P2 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0251	0.0122	0.2639	8.8000e-004	0.1133	3.8000e-004	0.1137	0.0303	3.5000e-004	0.0306		95.8692	95.8692	1.2800e-003	1.7100e-003	96.4122
Total	0.0251	0.0122	0.2639	8.8000e-004	0.1133	3.8000e-004	0.1137	0.0303	3.5000e-004	0.0306		95.8692	95.8692	1.2800e-003	1.7100e-003	96.4122

Construction P2 - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P2
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	131.59	1000sqft	1.23	131,587.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2031

Utility Company

CO2 Intensity (lb/MWahr)	0	CH4 Intensity (lb/MWahr)	0	N2O Intensity (lb/MWahr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Based on information on provided by the College District.
 Demolition -
 Trips and VMT - See Construction Phase 2 assumptions file in the AQ/GHG appendix of the DEIR.
 Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.02	1.23
tblTripsAndVMT	HaulingTripNumber	367.00	368.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

2.0 Emissions Summary

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2030	1.4044	10.1886	13.9106	0.0386	7.2328	0.2363	7.4206	3.4655	0.2353	3.6532	0.0000	3,799.0642	3,799.0642	0.1597	0.1650	3,852.2373
2031	122.1369	8.0442	13.5090	0.0312	0.7557	0.1733	0.8901	0.2036	0.1732	0.3376	0.0000	2,950.9452	2,950.9452	0.1115	0.0623	2,972.2894
Maximum	122.1369	10.1886	13.9106	0.0386	7.2328	0.2363	7.4206	3.4655	0.2353	3.6532	0.0000	3,799.0642	3,799.0642	0.1597	0.1650	3,852.2373

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					
2030	1.4044	10.1886	13.9106	0.0386	3.1668	0.2363	3.3546	1.5020	0.2353	1.6897	0.0000	3,799.0642	3,799.0642	0.1597	0.1650	3,852.2373
2031	122.1369	8.0442	13.5090	0.0312	0.6986	0.1733	0.8329	0.1896	0.1732	0.3236	0.0000	2,950.9452	2,950.9452	0.1115	0.0623	2,972.2894
Maximum	122.1369	10.1886	13.9106	0.0386	3.1668	0.2363	3.3546	1.5020	0.2353	1.6897	0.0000	3,799.0642	3,799.0642	0.1597	0.1650	3,852.2373

	ROG	NOx	CO	SO2	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	51.61	0.00	49.61	53.89	0.00	49.55	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2030	8/28/2030	5	20	
2	Site Preparation	Site Preparation	8/29/2030	8/30/2030	5	2	
3	Grading	Grading	8/31/2030	9/5/2030	5	4	
4	Building Construction	Building Construction	9/6/2030	6/12/2031	5	200	
5	Paving	Paving	6/13/2031	6/26/2031	5	10	
6	Architectural Coating	Architectural Coating	6/27/2031	7/10/2031	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 197,381; Non-Residential Outdoor: 65,794; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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	5	13.00	4.00	368.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	55.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2030

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					3.9706	0.0000	3.9706	0.6012	0.0000	0.6012			0.0000			0.0000
Off-Road	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148		2,662.1297	2,662.1297	0.1177		2,665.0713
Total	1.3307	8.0078	12.9685	0.0281	3.9706	0.2148	4.1853	0.6012	0.2148	0.8159		2,662.1297	2,662.1297	0.1177		2,665.0713

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0388	2.0205	0.6191	8.8700e-003	0.3222	0.0201	0.3422	0.0883	0.0192	0.1075		965.5717	965.5717	0.0388	0.1530	1,012.1272
Vendor	3.8700e-003	0.1442	0.0560	6.3000e-004	0.0256	1.0100e-003	0.0266	7.3800e-003	9.7000e-004	8.3500e-003		67.2671	67.2671	1.6100e-003	9.9000e-003	70.2579
Worker	0.0310	0.0163	0.2670	9.6000e-004	0.1453	4.8000e-004	0.1458	0.0385	4.4000e-004	0.0390		104.0957	104.0957	1.6700e-003	2.1600e-003	104.7809
Total	0.0737	2.1809	0.9420	0.0105	0.4931	0.0215	0.5147	0.1343	0.0206	0.1549		1,136.9345	1,136.9345	0.0420	0.1650	1,187.1660

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6974	0.0000	1.6974	0.2570	0.0000	0.2570			0.0000			0.0000
Off-Road	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713
Total	1.3307	8.0078	12.9685	0.0281	1.6974	0.2148	1.9122	0.2570	0.2148	0.4718	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713

Mitigated Construction Off-Site

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0388	2.0205	0.6191	8.8700e-003	0.3003	0.0201	0.3203	0.0830	0.0192	0.1022		965.5717	965.5717	0.0388	0.1530	1,012.1272
Vendor	3.8700e-003	0.1442	0.0560	6.3000e-004	0.0240	1.0100e-003	0.0250	6.9800e-003	9.7000e-004	7.9400e-003		67.2671	67.2671	1.6100e-003	9.9000e-003	70.2579
Worker	0.0310	0.0163	0.2670	9.6000e-004	0.1339	4.8000e-004	0.1344	0.0358	4.4000e-004	0.0362		104.0957	104.0957	1.6700e-003	2.1600e-003	104.7809
Total	0.0737	2.1809	0.9420	0.0105	0.4582	0.0215	0.4797	0.1257	0.0206	0.1463		1,136.9345	1,136.9345	0.0420	0.1650	1,187.1660

3.3 Site Preparation - 2030

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					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567		1,994.6929	1,994.6929	0.0866		1,996.8585
Total	0.9750	4.7401	5.9133	0.0211	6.2662	0.1567	6.4229	3.0041	0.1567	3.1607		1,994.6929	1,994.6929	0.0866		1,996.8585

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					

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8700e-003	0.1442	0.0560	6.3000e-004	0.0256	1.0100e-003	0.0266	7.3800e-003	9.7000e-004	8.3500e-003		67.2671	67.2671	1.6100e-003	9.9000e-003	70.2579
Worker	0.0191	0.0100	0.1643	5.9000e-004	0.0894	2.9000e-004	0.0897	0.0237	2.7000e-004	0.0240		64.0589	64.0589	1.0300e-003	1.3300e-003	64.4805
Total	0.0229	0.1542	0.2203	1.2200e-003	0.1151	1.3000e-003	0.1164	0.0311	1.2400e-003	0.0323		131.3260	131.3260	2.6400e-003	0.0112	134.7384

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					2.6788	0.0000	2.6788	1.2843	0.0000	1.2843			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585
Total	0.9750	4.7401	5.9133	0.0211	2.6788	0.1567	2.8355	1.2843	0.1567	1.4409	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585

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	0.0000
Vendor	3.8700e-003	0.1442	0.0560	6.3000e-004	0.0240	1.0100e-003	0.0250	6.9800e-003	9.7000e-004	7.9400e-003		67.2671	67.2671	1.6100e-003	9.9000e-003	70.2579
Worker	0.0191	0.0100	0.1643	5.9000e-004	0.0824	2.9000e-004	0.0827	0.0220	2.7000e-004	0.0223		64.0589	64.0589	1.0300e-003	1.3300e-003	64.4805

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0229	0.1542	0.2203	1.2200e-003	0.1064	1.3000e-003	0.1077	0.0290	1.2400e-003	0.0302		131.3260	131.3260	2.6400e-003	0.0112	134.7384
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3.4 Grading - 2030

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859		2,388.2741	2,388.2741	0.1046		2,390.8880
Total	1.1771	5.9092	7.9601	0.0252	7.0826	0.1859	7.2685	3.4247	0.1859	3.6107		2,388.2741	2,388.2741	0.1046		2,390.8880

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	0.0000
Vendor	5.8000e-003	0.2162	0.0840	9.4000e-004	0.0384	1.5200e-003	0.0400	0.0111	1.4500e-003	0.0125		100.9007	100.9007	2.4200e-003	0.0149	105.3868
Worker	0.0238	0.0125	0.2054	7.4000e-004	0.1116	3.7000e-004	0.1121	0.0296	3.4000e-004	0.0300		80.0736	80.0736	1.2800e-003	1.6600e-003	80.6007
Total	0.0296	0.2287	0.2894	1.6800e-003	0.1502	1.8900e-003	0.1521	0.0407	1.7900e-003	0.0425		180.9742	180.9742	3.7000e-003	0.0165	185.9875

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859	0.0000	2,388.2741	2,388.2741	0.1046		2,390.8880
Total	1.1771	5.9092	7.9601	0.0252	3.0278	0.1859	3.2137	1.4641	0.1859	1.6500	0.0000	2,388.2741	2,388.2741	0.1046		2,390.8880

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	0.0000
Vendor	5.8000e-003	0.2162	0.0840	9.4000e-004	0.0360	1.5200e-003	0.0375	0.0105	1.4500e-003	0.0119		100.9007	100.9007	2.4200e-003	0.0149	105.3868
Worker	0.0238	0.0125	0.2054	7.4000e-004	0.1030	3.7000e-004	0.1034	0.0275	3.4000e-004	0.0278		80.0736	80.0736	1.2800e-003	1.6600e-003	80.6007
Total	0.0296	0.2287	0.2894	1.6800e-003	0.1390	1.8900e-003	0.1409	0.0380	1.7900e-003	0.0397		180.9742	180.9742	3.7000e-003	0.0165	185.9875

3.5 Building Construction - 2030

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

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Off-Road	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	2,152.6566	2,152.6566	0.0964		2,155.0655

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	0.0000
Vendor	0.0213	0.7928	0.3080	3.4500e-003	0.1409	5.5600e-003	0.1465	0.0406	5.3200e-003	0.0459		369.9691	369.9691	8.8600e-003	0.0545	386.4182
Worker	0.1311	0.0688	1.1295	4.0700e-003	0.6148	2.0200e-003	0.6168	0.1630	1.8600e-003	0.1649		440.4048	440.4048	7.0500e-003	9.1400e-003	443.3037
Total	0.1523	0.8616	1.4374	7.5200e-003	0.7557	7.5800e-003	0.7633	0.2036	7.1800e-003	0.2108		810.3738	810.3738	0.0159	0.0636	829.7219

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0213	0.7928	0.3080	3.4500e-003	0.1319	5.5600e-003	0.1375	0.0384	5.3200e-003	0.0437		369.9691	369.9691	8.8600e-003	0.0545	386.4182
Worker	0.1311	0.0688	1.1295	4.0700e-003	0.5667	2.0200e-003	0.5687	0.1512	1.8600e-003	0.1531		440.4048	440.4048	7.0500e-003	9.1400e-003	443.3037
Total	0.1523	0.8616	1.4374	7.5200e-003	0.6986	7.5800e-003	0.7062	0.1896	7.1800e-003	0.1968		810.3738	810.3738	0.0159	0.0636	829.7219

3.5 Building Construction - 2031

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0211	0.7922	0.3071	3.4000e-003	0.1409	5.4300e-003	0.1464	0.0406	5.2000e-003	0.0458	363.6002	363.6002	8.6400e-003	0.0535	379.7510	
Worker	0.1227	0.0639	1.0919	3.9900e-003	0.6148	1.9000e-003	0.6167	0.1630	1.7500e-003	0.1648	434.6884	434.6884	6.5400e-003	8.8300e-003	437.4830	
Total	0.1438	0.8561	1.3990	7.3900e-003	0.7557	7.3300e-003	0.7630	0.2036	6.9500e-003	0.2106	798.2886	798.2886	0.0152	0.0623	817.2340	

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655

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	0.0000
Vendor	0.0211	0.7922	0.3071	3.4000e-003	0.1319	5.4300e-003	0.1373	0.0384	5.2000e-003	0.0436		363.6002	363.6002	8.6400e-003	0.0535	379.7510
Worker	0.1227	0.0639	1.0919	3.9900e-003	0.5667	1.9000e-003	0.5686	0.1512	1.7500e-003	0.1530		434.6884	434.6884	6.5400e-003	8.8300e-003	437.4830

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1438	0.8561	1.3990	7.3900e-003	0.6986	7.3300e-003	0.7059	0.1896	6.9500e-003	0.1965		798.2886	798.2886	0.0152	0.0623	817.2340
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3.6 Paving - 2031

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	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.9712	1,550.9712	0.0731		1,552.7983
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.9712	1,550.9712	0.0731		1,552.7983

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0151	0.2581	9.4000e-004	0.1453	4.5000e-004	0.1458	0.0385	4.1000e-004	0.0390		102.7445	102.7445	1.5500e-003	2.0900e-003	103.4051
Total	0.0290	0.0151	0.2581	9.4000e-004	0.1453	4.5000e-004	0.1458	0.0385	4.1000e-004	0.0390		102.7445	102.7445	1.5500e-003	2.0900e-003	103.4051

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728	0.0000	1,550.9712	1,550.9712	0.0731		1,552.7983
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728	0.0000	1,550.9712	1,550.9712	0.0731		1,552.7983

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0151	0.2581	9.4000e-004	0.1339	4.5000e-004	0.1344	0.0358	4.1000e-004	0.0362		102.7445	102.7445	1.5500e-003	2.0900e-003	103.4051
Total	0.0290	0.0151	0.2581	9.4000e-004	0.1339	4.5000e-004	0.1344	0.0358	4.1000e-004	0.0362		102.7445	102.7445	1.5500e-003	2.0900e-003	103.4051

3.7 Architectural Coating - 2031

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
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Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Archit. Coating	121.9816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	122.1124	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0128	0.2184	8.0000e-004	0.1230	3.8000e-004	0.1233	0.0326	3.5000e-004	0.0330		86.9377	86.9377	1.3100e-003	1.7700e-003	87.4966
Total	0.0245	0.0128	0.2184	8.0000e-004	0.1230	3.8000e-004	0.1233	0.0326	3.5000e-004	0.0330		86.9377	86.9377	1.3100e-003	1.7700e-003	87.4966

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	121.9816					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Construction P2 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	122.1124	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
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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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0128	0.2184	8.0000e-004	0.1133	3.8000e-004	0.1137	0.0303	3.5000e-004	0.0306		86.9377	86.9377	1.3100e-003	1.7700e-003	87.4966
Total	0.0245	0.0128	0.2184	8.0000e-004	0.1133	3.8000e-004	0.1137	0.0303	3.5000e-004	0.0306		86.9377	86.9377	1.3100e-003	1.7700e-003	87.4966

Construction P2 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P2
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	131.59	1000sqft	1.23	131,587.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2031

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Based on information on provided by the College District.
 Demolition -
 Trips and VMT - See Construction Phase 2 assumptions file in the AQ/GHG appendix of the DEIR.
 Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.02	1.23
tblTripsAndVMT	HaulingTripNumber	367.00	368.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

2.0 Emissions Summary

Construction P2 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2030	0.0682	0.4532	0.7261	1.7700e-003	0.0962	8.4800e-003	0.1047	0.0256	8.4600e-003	0.0341	0.0000	152.9257	152.9257	5.9600e-003	3.9400e-003	154.2484
2031	0.6860	0.4969	0.8518	1.9400e-003	0.0447	8.8300e-003	0.0535	0.0121	8.8100e-003	0.0209	0.0000	166.2211	166.2211	6.3200e-003	3.3400e-003	167.3730
Maximum	0.6860	0.4969	0.8518	1.9400e-003	0.0962	8.8300e-003	0.1047	0.0256	8.8100e-003	0.0341	0.0000	166.2211	166.2211	6.3200e-003	3.9400e-003	167.3730

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					
2030	0.0682	0.4531	0.7261	1.7700e-003	0.0591	8.4800e-003	0.0675	0.0159	8.4600e-003	0.0243	0.0000	152.9256	152.9256	5.9600e-003	3.9400e-003	154.2483
2031	0.6860	0.4969	0.8518	1.9400e-003	0.0413	8.8300e-003	0.0502	0.0112	8.8100e-003	0.0200	0.0000	166.2209	166.2209	6.3200e-003	3.3400e-003	167.3729
Maximum	0.6860	0.4969	0.8518	1.9400e-003	0.0591	8.8300e-003	0.0675	0.0159	8.8100e-003	0.0243	0.0000	166.2209	166.2209	6.3200e-003	3.9400e-003	167.3729

	ROG	NOx	CO	SO2	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	28.74	0.00	25.59	28.09	0.00	19.24	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	8-1-2030	10-31-2030	0.3201	0.3201
2	11-1-2030	1-31-2031	0.3049	0.3049

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	2-1-2031	4-30-2031	0.2942	0.2942
4	5-1-2031	7-31-2031	0.7830	0.7830
		Highest	0.7830	0.7830

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	8/1/2030	8/28/2030	5	20	
2	Site Preparation	Site Preparation	8/29/2030	8/30/2030	5	2	
3	Grading	Grading	8/31/2030	9/5/2030	5	4	
4	Building Construction	Building Construction	9/6/2030	6/12/2031	5	200	
5	Paving	Paving	6/13/2031	6/26/2031	5	10	
6	Architectural Coating	Architectural Coating	6/27/2031	7/10/2031	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 197,381; Non-Residential Outdoor: 65,794; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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	5	13.00	4.00	368.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	55.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2030

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
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Construction P2 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0397	0.0000	0.0397	6.0100e-003	0.0000	6.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0801	0.1297	2.8000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	24.1504	24.1504	1.0700e-003	0.0000	24.1771
Total	0.0133	0.0801	0.1297	2.8000e-004	0.0397	2.1500e-003	0.0419	6.0100e-003	2.1500e-003	8.1600e-003	0.0000	24.1504	24.1504	1.0700e-003	0.0000	24.1771

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	4.1000e-004	0.0203	6.1300e-003	9.0000e-005	3.1700e-003	2.0000e-004	3.3700e-003	8.7000e-004	1.9000e-004	1.0600e-003	0.0000	8.7515	8.7515	3.5000e-004	1.3900e-003	9.1735
Vendor	4.0000e-005	1.4300e-003	5.5000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6093	0.6093	1.0000e-005	9.0000e-005	0.6364
Worker	2.8000e-004	1.7000e-004	2.8000e-003	1.0000e-005	1.4300e-003	0.0000	1.4300e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.9629	0.9629	2.0000e-005	2.0000e-005	0.9693
Total	7.3000e-004	0.0219	9.4800e-003	1.1000e-004	4.8500e-003	2.1000e-004	5.0600e-003	1.3200e-003	2.0000e-004	1.5200e-003	0.0000	10.3237	10.3237	3.8000e-004	1.5000e-003	10.7792

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0170	0.0000	0.0170	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0801	0.1297	2.8000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	24.1504	24.1504	1.0700e-003	0.0000	24.1771

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0133	0.0801	0.1297	2.8000e-004	0.0170	2.1500e-003	0.0191	2.5700e-003	2.1500e-003	4.7200e-003	0.0000	24.1504	24.1504	1.0700e-003	0.0000	24.1771
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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	4.1000e-004	0.0203	6.1300e-003	9.0000e-005	2.9500e-003	2.0000e-004	3.1500e-003	8.2000e-004	1.9000e-004	1.0100e-003	0.0000	8.7515	8.7515	3.5000e-004	1.3900e-003	9.1735
Vendor	4.0000e-005	1.4300e-003	5.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6093	0.6093	1.0000e-005	9.0000e-005	0.6364
Worker	2.8000e-004	1.7000e-004	2.8000e-003	1.0000e-005	1.3100e-003	0.0000	1.3200e-003	3.5000e-004	0.0000	3.6000e-004	0.0000	0.9629	0.9629	2.0000e-005	2.0000e-005	0.9693
Total	7.3000e-004	0.0219	9.4800e-003	1.1000e-004	4.5000e-003	2.1000e-004	4.7200e-003	1.2400e-003	2.0000e-004	1.4500e-003	0.0000	10.3237	10.3237	3.8000e-004	1.5000e-003	10.7792

3.3 Site Preparation - 2030

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					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115
Total	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005	6.2700e-003	1.6000e-004	6.4300e-003	3.0000e-003	1.6000e-004	3.1600e-003	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.4000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0609	0.0609	0.0000	1.0000e-005	0.0636
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0593	0.0593	0.0000	0.0000	0.0597
Total	2.0000e-005	1.5000e-004	2.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1202	0.1202	0.0000	1.0000e-005	0.1233

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					2.6800e-003	0.0000	2.6800e-003	1.2800e-003	0.0000	1.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115
Total	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005	2.6800e-003	1.6000e-004	2.8400e-003	1.2800e-003	1.6000e-004	1.4400e-003	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.4000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0609	0.0609	0.0000	1.0000e-005	0.0636
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0593	0.0593	0.0000	0.0000	0.0597
Total	2.0000e-005	1.5000e-004	2.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1202	0.1202	0.0000	1.0000e-005	0.1233

3.4 Grading - 2030

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3500e-003	0.0118	0.0159	5.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	4.3332	4.3332	1.9000e-004	0.0000	4.3380
Total	2.3500e-003	0.0118	0.0159	5.0000e-005	0.0142	3.7000e-004	0.0145	6.8500e-003	3.7000e-004	7.2200e-003	0.0000	4.3332	4.3332	1.9000e-004	0.0000	4.3380

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.3000e-004	1.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1828	0.1828	0.0000	3.0000e-005	0.1909

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	4.0000e-005	3.0000e-005	4.3000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1481	0.1481	0.0000	0.0000	0.1491
Total	5.0000e-005	4.6000e-004	6.0000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3309	0.3309	0.0000	3.0000e-005	0.3401

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					6.0600e-003	0.0000	6.0600e-003	2.9300e-003	0.0000	2.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3500e-003	0.0118	0.0159	5.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	4.3332	4.3332	1.9000e-004	0.0000	4.3380
Total	2.3500e-003	0.0118	0.0159	5.0000e-005	6.0600e-003	3.7000e-004	6.4300e-003	2.9300e-003	3.7000e-004	3.3000e-003	0.0000	4.3332	4.3332	1.9000e-004	0.0000	4.3380

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.3000e-004	1.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1828	0.1828	0.0000	3.0000e-005	0.1909
Worker	4.0000e-005	3.0000e-005	4.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1481	0.1481	0.0000	0.0000	0.1491
Total	5.0000e-005	4.6000e-004	6.0000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3309	0.3309	0.0000	3.0000e-005	0.3401

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2030

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	0.0449	0.2983	0.5026	9.9000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	81.0436	81.0436	3.6300e-003	0.0000	81.1343
Total	0.0449	0.2983	0.5026	9.9000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	81.0436	81.0436	3.6300e-003	0.0000	81.1343

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	9.2000e-004	0.0327	0.0126	1.4000e-004	5.7600e-003	2.3000e-004	5.9900e-003	1.6600e-003	2.2000e-004	1.8800e-003	0.0000	13.9082	13.9082	3.4000e-004	2.0500e-003	14.5266
Worker	4.9900e-003	2.9900e-003	0.0491	1.7000e-004	0.0250	8.0000e-005	0.0251	6.6500e-003	8.0000e-005	6.7200e-003	0.0000	16.9059	16.9059	2.7000e-004	3.5000e-004	17.0184
Total	5.9100e-003	0.0357	0.0617	3.1000e-004	0.0308	3.1000e-004	0.0311	8.3100e-003	3.0000e-004	8.6000e-003	0.0000	30.8141	30.8141	6.1000e-004	2.4000e-003	31.5450

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
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Off-Road	0.0449	0.2983	0.5026	9.9000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	81.0435	81.0435	3.6300e-003	0.0000	81.1342
Total	0.0449	0.2983	0.5026	9.9000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	81.0435	81.0435	3.6300e-003	0.0000	81.1342

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	9.2000e-004	0.0327	0.0126	1.4000e-004	5.3900e-003	2.3000e-004	5.6200e-003	1.5700e-003	2.2000e-004	1.7900e-003	0.0000	13.9082	13.9082	3.4000e-004	2.0500e-003	14.5266
Worker	4.9900e-003	2.9900e-003	0.0491	1.7000e-004	0.0231	8.0000e-005	0.0232	6.1700e-003	8.0000e-005	6.2400e-003	0.0000	16.9059	16.9059	2.7000e-004	3.5000e-004	17.0184
Total	5.9100e-003	0.0357	0.0617	3.1000e-004	0.0285	3.1000e-004	0.0288	7.7400e-003	3.0000e-004	8.0300e-003	0.0000	30.8141	30.8141	6.1000e-004	2.4000e-003	31.5450

3.5 Building Construction - 2031

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	0.0633	0.4205	0.7084	1.3900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	114.2422	114.2422	5.1100e-003	0.0000	114.3700
Total	0.0633	0.4205	0.7084	1.3900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	114.2422	114.2422	5.1100e-003	0.0000	114.3700

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2900e-003	0.0461	0.0177	2.0000e-004	8.1200e-003	3.2000e-004	8.4300e-003	2.3400e-003	3.0000e-004	2.6500e-003	0.0000	19.2679	19.2679	4.6000e-004	2.8300e-003	20.1238
Worker	6.5800e-003	3.9100e-003	0.0670	2.4000e-004	0.0353	1.1000e-004	0.0354	9.3700e-003	1.0000e-004	9.4700e-003	0.0000	23.5221	23.5221	3.5000e-004	4.8000e-004	23.6749
Total	7.8700e-003	0.0500	0.0846	4.4000e-004	0.0434	4.3000e-004	0.0438	0.0117	4.0000e-004	0.0121	0.0000	42.7899	42.7899	8.1000e-004	3.3100e-003	43.7987

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	0.0633	0.4205	0.7084	1.3900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	114.2420	114.2420	5.1100e-003	0.0000	114.3699
Total	0.0633	0.4205	0.7084	1.3900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	114.2420	114.2420	5.1100e-003	0.0000	114.3699

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2900e-003	0.0461	0.0177	2.0000e-004	7.6000e-003	3.2000e-004	7.9200e-003	2.2200e-003	3.0000e-004	2.5200e-003	0.0000	19.2679	19.2679	4.6000e-004	2.8300e-003	20.1238
Worker	6.5800e-003	3.9100e-003	0.0670	2.4000e-004	0.0325	1.1000e-004	0.0326	8.6900e-003	1.0000e-004	8.8000e-003	0.0000	23.5221	23.5221	3.5000e-004	4.8000e-004	23.6749
Total	7.8700e-003	0.0500	0.0846	4.4000e-004	0.0401	4.3000e-004	0.0406	0.0109	4.0000e-004	0.0113	0.0000	42.7899	42.7899	8.1000e-004	3.3100e-003	43.7987

3.6 Paving - 2031

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	4.0800e-003	0.0220	0.0473	8.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	7.0351	7.0351	3.3000e-004	0.0000	7.0434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.0800e-003	0.0220	0.0473	8.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	7.0351	7.0351	3.3000e-004	0.0000	7.0434

Unmitigated Construction Off-Site

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

Construction P2 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	1.3000e-004	8.0000e-005	1.3500e-003	0.0000	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4752	0.4752	1.0000e-005	1.0000e-005	0.4783
Total	1.3000e-004	8.0000e-005	1.3500e-003	0.0000	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4752	0.4752	1.0000e-005	1.0000e-005	0.4783

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	4.0800e-003	0.0220	0.0473	8.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	7.0351	7.0351	3.3000e-004	0.0000	7.0434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.0800e-003	0.0220	0.0473	8.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	7.0351	7.0351	3.3000e-004	0.0000	7.0434

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	1.3000e-004	8.0000e-005	1.3500e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4752	0.4752	1.0000e-005	1.0000e-005	0.4783
Total	1.3000e-004	8.0000e-005	1.3500e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4752	0.4752	1.0000e-005	1.0000e-005	0.4783

Construction P2 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2031

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	0.6099					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	4.2800e-003	8.9900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.2766	1.2766	5.0000e-005	0.0000	1.2779
Total	0.6106	4.2800e-003	8.9900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.2766	1.2766	5.0000e-005	0.0000	1.2779

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	1.1000e-004	7.0000e-005	1.1400e-003	0.0000	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4021	0.4021	1.0000e-005	1.0000e-005	0.4047
Total	1.1000e-004	7.0000e-005	1.1400e-003	0.0000	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4021	0.4021	1.0000e-005	1.0000e-005	0.4047

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
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Construction P2 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr								MT/yr							
	Archit. Coating	0.6099					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	4.2800e-003	8.9900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.2766	1.2766	5.0000e-005	0.0000	1.2779
Total	0.6106	4.2800e-003	8.9900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.2766	1.2766	5.0000e-005	0.0000	1.2779

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	1.1000e-004	7.0000e-005	1.1400e-003	0.0000	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4021	0.4021	1.0000e-005	1.0000e-005	0.4047
Total	1.1000e-004	7.0000e-005	1.1400e-003	0.0000	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4021	0.4021	1.0000e-005	1.0000e-005	0.4047

Construction P2
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	3	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Construction P2

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	6.50000E-004	4.28000E-003	8.99000E-003	1.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	1.27663E+000	1.27663E+000	5.00000E-005	0.00000E+000	1.27792E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	2.30000E-003	1.73800E-002	3.62900E-002	6.00000E-005	3.80000E-004	3.80000E-004	0.00000E+000	5.37656E+000	5.37656E+000	1.80000E-004	0.00000E+000	5.38106E+000
Cranes	1.98500E-002	6.62800E-002	1.01640E-001	5.30000E-004	2.13000E-003	2.13000E-003	0.00000E+000	4.56844E+001	4.56844E+001	1.61000E-003	0.00000E+000	4.57246E+001
Forklifts	6.66000E-003	3.66100E-002	8.94500E-002	1.40000E-004	4.90000E-004	4.90000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.30000E-004	0.00000E+000	1.21522E+001
Generator Sets	1.95100E-002	1.80340E-001	3.63540E-001	6.60000E-004	3.73000E-003	3.73000E-003	0.00000E+000	5.65208E+001	5.65208E+001	1.59000E-003	0.00000E+000	5.65605E+001
Graders	8.80000E-004	2.77000E-003	4.66000E-003	2.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	2.09143E+000	2.09143E+000	7.00000E-005	0.00000E+000	2.09318E+000
Pavers	1.08000E-003	5.15000E-003	1.20100E-002	2.00000E-005	2.70000E-004	2.70000E-004	0.00000E+000	1.86175E+000	1.86175E+000	9.00000E-005	0.00000E+000	1.86396E+000
Paving Equipment	1.22000E-003	5.71000E-003	1.38500E-002	3.00000E-005	2.90000E-004	2.90000E-004	0.00000E+000	2.16045E+000	2.16045E+000	1.00000E-004	0.00000E+000	2.16292E+000
Rollers	7.00000E-004	4.57000E-003	8.54000E-003	1.00000E-005	1.50000E-004	1.50000E-004	0.00000E+000	1.20934E+000	1.20934E+000	6.00000E-005	0.00000E+000	1.21078E+000
Rubber Tired Dozers	7.52000E-003	4.10100E-002	2.96600E-002	1.30000E-004	1.55000E-003	1.55000E-003	0.00000E+000	1.15665E+001	1.15665E+001	6.10000E-004	0.00000E+000	1.15817E+001
Tractors/Loaders/Bulldozers	1.97100E-002	1.17700E-001	2.68530E-001	4.30000E-004	2.17000E-003	2.17000E-003	0.00000E+000	3.73659E+001	3.73659E+001	1.58000E-003	0.00000E+000	3.74054E+001
Welders	4.91800E-002	3.58480E-001	4.80490E-001	7.70000E-004	4.93000E-003	4.93000E-003	0.00000E+000	5.64662E+001	5.64662E+001	3.97000E-003	0.00000E+000	5.65656E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	6.50000E-004	4.28000E-003	8.99000E-003	1.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	1.27663E+000	1.27663E+000	5.00000E-005	0.00000E+000	1.27792E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	2.30000E-003	1.73800E-002	3.62900E-002	6.00000E-005	3.80000E-004	3.80000E-004	0.00000E+000	5.37656E+000	5.37656E+000	1.80000E-004	0.00000E+000	5.38105E+000
Cranes	1.98500E-002	6.62800E-002	1.01640E-001	5.30000E-004	2.13000E-003	2.13000E-003	0.00000E+000	4.56844E+001	4.56844E+001	1.61000E-003	0.00000E+000	4.57246E+001
Forklifts	6.66000E-003	3.66100E-002	8.94500E-002	1.40000E-004	4.90000E-004	4.90000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.30000E-004	0.00000E+000	1.21522E+001
Generator Sets	1.95100E-002	1.80340E-001	3.63540E-001	6.60000E-004	3.73000E-003	3.73000E-003	0.00000E+000	5.65207E+001	5.65207E+001	1.59000E-003	0.00000E+000	5.65605E+001
Graders	8.80000E-004	2.77000E-003	4.66000E-003	2.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	2.09143E+000	2.09143E+000	7.00000E-005	0.00000E+000	2.09318E+000
Pavers	1.08000E-003	5.15000E-003	1.20100E-002	2.00000E-005	2.70000E-004	2.70000E-004	0.00000E+000	1.86175E+000	1.86175E+000	9.00000E-005	0.00000E+000	1.86396E+000
Paving Equipment	1.22000E-003	5.71000E-003	1.38500E-002	3.00000E-005	2.90000E-004	2.90000E-004	0.00000E+000	2.16044E+000	2.16044E+000	1.00000E-004	0.00000E+000	2.16291E+000
Rollers	7.00000E-004	4.57000E-003	8.54000E-003	1.00000E-005	1.50000E-004	1.50000E-004	0.00000E+000	1.20934E+000	1.20934E+000	6.00000E-005	0.00000E+000	1.21078E+000
Rubber Tired Dozers	7.52000E-003	4.10100E-002	2.96600E-002	1.30000E-004	1.55000E-003	1.55000E-003	0.00000E+000	1.15665E+001	1.15665E+001	6.10000E-004	0.00000E+000	1.15817E+001

Construction P2

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Tractors/Loaders/Bac hoes	1.97100E-002	1.17700E-001	2.68530E-001	4.30000E-004	2.17000E-003	2.17000E-003	0.00000E+000	3.73659E+001	3.73659E+001	1.58000E-003	0.00000E+000	3.74053E+001
Welders	4.91800E-002	3.58480E-001	4.80490E-001	7.70000E-004	4.93000E-003	4.93000E-003	0.00000E+000	5.64661E+001	5.64661E+001	3.97000E-003	0.00000E+000	5.65655E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85837E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.09447E-006	1.09447E-006	0.00000E+000	0.00000E+000	1.09350E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.64760E-006	1.64760E-006	0.00000E+000	0.00000E+000	1.64579E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23848E-006	1.23848E-006	0.00000E+000	0.00000E+000	1.23761E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.62867E-006	4.62867E-006	0.00000E+000	0.00000E+000	4.62338E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.72913E-006	1.72913E-006	0.00000E+000	0.00000E+000	8.63428E-007
Tractors/Loaders/Bac hoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07049E-006	1.07049E-006	0.00000E+000	0.00000E+000	1.06936E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.23750E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00
Yes	Clean Paved Road	% PM Reduction	9.00		
				Frequency (per day)	2.00

Construction P2

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.07	0.02	0.07	0.02	0.08	0.07
Demolition	Fugitive Dust	0.04	0.01	0.02	0.00	0.57	0.57
Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Grading	Fugitive Dust	0.01	0.01	0.01	0.00	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.10	0.13
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.05
Site Preparation	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.17	0.00

CalEEMod Output: Phase 2 Construction – Mitigated

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Construction P2 - Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P2 - Mitigated
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	131.59	1000sqft	1.23	131,587.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2031

Utility Company

CO2 Intensity (lb/MWahr)	0	CH4 Intensity (lb/MWahr)	0	N2O Intensity (lb/MWahr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information on provided by the College District.
- Trips and VMT - See Construction Phase 2 assumptions file in the AQ/GHG appendix of the DEIR.
- Demolition -
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.02	1.23
tblTripsAndVMT	HaulingTripNumber	367.00	368.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	1.4088	10.0754	13.9536	0.0387	7.2328	0.2363	7.4206	3.4655	0.2353	3.6532	0.0000	3,808.0554	3,808.0554	0.1599	0.1647	3,861.1320
2031	24.5522	7.9988	13.7272	0.0316	0.7557	0.1733	0.8900	0.2036	0.1732	0.3376	0.0000	2,994.6746	2,994.6746	0.1115	0.0619	3,015.9020
Maximum	24.5522	10.0754	13.9536	0.0387	7.2328	0.2363	7.4206	3.4655	0.2353	3.6532	0.0000	3,808.0554	3,808.0554	0.1599	0.1647	3,861.1320

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					
2030	1.4088	10.0754	13.9536	0.0387	3.1668	0.2363	3.3546	1.5020	0.2353	1.6897	0.0000	3,808.0554	3,808.0554	0.1599	0.1647	3,861.1320
2031	24.5522	7.9988	13.7272	0.0316	0.6986	0.1733	0.8329	0.1896	0.1732	0.3236	0.0000	2,994.6746	2,994.6746	0.1115	0.0619	3,015.9020
Maximum	24.5522	10.0754	13.9536	0.0387	3.1668	0.2363	3.3546	1.5020	0.2353	1.6897	0.0000	3,808.0554	3,808.0554	0.1599	0.1647	3,861.1320

	ROG	NOx	CO	SO2	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	51.61	0.00	49.61	53.89	0.00	49.55	0.00	0.00	0.00	0.00	0.00	0.00

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	8/1/2030	8/28/2030	5	20	
2	Site Preparation	Site Preparation	8/29/2030	8/30/2030	5	2	
3	Grading	Grading	8/31/2030	9/5/2030	5	4	
4	Building Construction	Building Construction	9/6/2030	6/12/2031	5	200	
5	Paving	Paving	6/13/2031	6/26/2031	5	10	
6	Architectural Coating	Architectural Coating	6/27/2031	7/10/2031	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 197,381; Non-Residential Outdoor: 65,794; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	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
Demolition	5	13.00	4.00	368.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	55.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2030

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.9706	0.0000	3.9706	0.6012	0.0000	0.6012			0.0000			0.0000
Off-Road	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148		2,662.1297	2,662.1297	0.1177		2,665.0713

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.3307	8.0078	12.9685	0.0281	3.9706	0.2148	4.1853	0.6012	0.2148	0.8159		2,662.1297	2,662.1297	0.1177		2,665.0713
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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	0.0421	1.9157	0.6083	8.8600e-003	0.3222	0.0200	0.3422	0.0883	0.0192	0.1075		964.0417	964.0417	0.0389	0.1527	1,010.5290
Vendor	4.2000e-003	0.1364	0.0543	6.3000e-004	0.0256	1.0100e-003	0.0266	7.3800e-003	9.6000e-004	8.3400e-003		67.0962	67.0962	1.6300e-003	9.8700e-003	70.0783
Worker	0.0317	0.0155	0.3226	1.0600e-003	0.1453	4.8000e-004	0.1458	0.0385	4.4000e-004	0.0390		114.7878	114.7878	1.6400e-003	2.1000e-003	115.4534
Total	0.0780	2.0677	0.9851	0.0106	0.4931	0.0215	0.5146	0.1343	0.0206	0.1548		1,145.9257	1,145.9257	0.0422	0.1647	1,196.0607

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6974	0.0000	1.6974	0.2570	0.0000	0.2570			0.0000			0.0000
Off-Road	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713
Total	1.3307	8.0078	12.9685	0.0281	1.6974	0.2148	1.9122	0.2570	0.2148	0.4718	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0421	1.9157	0.6083	8.8600e-003	0.3003	0.0200	0.3203	0.0830	0.0192	0.1021		964.0417	964.0417	0.0389	0.1527	1,010.5290
Vendor	4.2000e-003	0.1364	0.0543	6.3000e-004	0.0240	1.0100e-003	0.0250	6.9800e-003	9.6000e-004	7.9400e-003		67.0962	67.0962	1.6300e-003	9.8700e-003	70.0783
Worker	0.0317	0.0155	0.3226	1.0600e-003	0.1339	4.8000e-004	0.1344	0.0358	4.4000e-004	0.0362		114.7878	114.7878	1.6400e-003	2.1000e-003	115.4534
Total	0.0780	2.0677	0.9851	0.0106	0.4582	0.0215	0.4797	0.1257	0.0206	0.1463		1,145.9257	1,145.9257	0.0422	0.1647	1,196.0607

3.3 Site Preparation - 2030

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					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567		1,994.6929	1,994.6929	0.0866		1,996.8585
Total	0.9750	4.7401	5.9133	0.0211	6.2662	0.1567	6.4229	3.0041	0.1567	3.1607		1,994.6929	1,994.6929	0.0866		1,996.8585

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	4.2000e-003	0.1364	0.0543	6.3000e-004	0.0256	1.0100e-003	0.0266	7.3800e-003	9.6000e-004	8.3400e-003	67.0962	67.0962	1.6300e-003	9.8700e-003	70.0783	
Worker	0.0195	9.5400e-003	0.1985	6.5000e-004	0.0894	2.9000e-004	0.0897	0.0237	2.7000e-004	0.0240	70.6387	70.6387	1.0100e-003	1.2900e-003	71.0482	
Total	0.0237	0.1460	0.2528	1.2800e-003	0.1151	1.3000e-003	0.1163	0.0311	1.2300e-003	0.0323	137.7349	137.7349	2.6400e-003	0.0112	141.1265	

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					2.6788	0.0000	2.6788	1.2843	0.0000	1.2843			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585
Total	0.9750	4.7401	5.9133	0.0211	2.6788	0.1567	2.8355	1.2843	0.1567	1.4409	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585

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	0.0000
Vendor	4.2000e-003	0.1364	0.0543	6.3000e-004	0.0240	1.0100e-003	0.0250	6.9800e-003	9.6000e-004	7.9400e-003	67.0962	67.0962	1.6300e-003	9.8700e-003	70.0783	

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0195	9.5400e-003	0.1985	6.5000e-004	0.0824	2.9000e-004	0.0827	0.0220	2.7000e-004	0.0223		70.6387	70.6387	1.0100e-003	1.2900e-003	71.0482
Total	0.0237	0.1460	0.2528	1.2800e-003	0.1064	1.3000e-003	0.1077	0.0290	1.2300e-003	0.0302		137.7349	137.7349	2.6400e-003	0.0112	141.1265

3.4 Grading - 2030

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859		2,388.2741	2,388.2741	0.1046		2,390.8880
Total	1.1771	5.9092	7.9601	0.0252	7.0826	0.1859	7.2685	3.4247	0.1859	3.6107		2,388.2741	2,388.2741	0.1046		2,390.8880

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	0.0000
Vendor	6.3000e-003	0.2046	0.0814	9.4000e-004	0.0384	1.5100e-003	0.0400	0.0111	1.4500e-003	0.0125		100.6444	100.6444	2.4400e-003	0.0148	105.1174
Worker	0.0244	0.0119	0.2481	8.2000e-004	0.1118	3.7000e-004	0.1121	0.0296	3.4000e-004	0.0300		88.2983	88.2983	1.2600e-003	1.6100e-003	88.8103
Total	0.0307	0.2166	0.3295	1.7600e-003	0.1502	1.8800e-003	0.1521	0.0407	1.7900e-003	0.0425		188.9427	188.9427	3.7000e-003	0.0164	193.9277

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859	0.0000	2,388.2741	2,388.2741	0.1046		2,390.8880
Total	1.1771	5.9092	7.9601	0.0252	3.0278	0.1859	3.2137	1.4641	0.1859	1.6500	0.0000	2,388.2741	2,388.2741	0.1046		2,390.8880

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	0.0000
Vendor	6.3000e-003	0.2046	0.0814	9.4000e-004	0.0360	1.5100e-003	0.0375	0.0105	1.4500e-003	0.0119		100.6444	100.6444	2.4400e-003	0.0148	105.1174
Worker	0.0244	0.0119	0.2481	8.2000e-004	0.1030	3.7000e-004	0.1034	0.0275	3.4000e-004	0.0278		88.2983	88.2983	1.2600e-003	1.6100e-003	88.8103
Total	0.0307	0.2166	0.3295	1.7600e-003	0.1390	1.8800e-003	0.1409	0.0380	1.7900e-003	0.0397		188.9427	188.9427	3.7000e-003	0.0164	193.9277

3.5 Building Construction - 2030

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
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Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655

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	0.0000
Vendor	0.0231	0.7503	0.2985	3.4400e-003	0.1409	5.5400e-003	0.1465	0.0406	5.3000e-003	0.0459		369.0293	369.0293	8.9500e-003	0.0543	385.4306
Worker	0.1341	0.0656	1.3647	4.4900e-003	0.6148	2.0200e-003	0.6168	0.1630	1.8600e-003	0.1649		485.6408	485.6408	6.9300e-003	8.8700e-003	488.4565
Total	0.1572	0.8159	1.6632	7.9300e-003	0.7557	7.5600e-003	0.7633	0.2036	7.1600e-003	0.2108		854.6701	854.6701	0.0159	0.0632	873.8872

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0231	0.7503	0.2985	3.4400e-003	0.1319	5.5400e-003	0.1375	0.0384	5.3000e-003	0.0437		369.0293	369.0293	8.9500e-003	0.0543	385.4308
Worker	0.1341	0.0656	1.3647	4.4900e-003	0.5667	2.0200e-003	0.5687	0.1512	1.8600e-003	0.1531		485.6408	485.6408	6.9300e-003	8.8700e-003	488.4565
Total	0.1572	0.8159	1.6632	7.9300e-003	0.6986	7.5600e-003	0.7061	0.1896	7.1600e-003	0.1968		854.6701	854.6701	0.0159	0.0632	873.8872

3.5 Building Construction - 2031

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0230	0.7497	0.2977	3.3900e-003	0.1409	5.4200e-003	0.1464	0.0406	5.1800e-003	0.0458	362.6721	362.6721	8.7300e-003	0.0533	378.7757	
Worker	0.1253	0.0610	1.3195	4.4100e-003	0.6148	1.9000e-003	0.6167	0.1630	1.7500e-003	0.1648	479.3459	479.3459	6.4200e-003	8.5700e-003	482.0608	
Total	0.1483	0.8107	1.6172	7.8000e-003	0.7557	7.3200e-003	0.7630	0.2036	6.9300e-003	0.2106	842.0180	842.0180	0.0152	0.0619	860.8365	

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655

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	0.0000
Vendor	0.0230	0.7497	0.2977	3.3900e-003	0.1319	5.4200e-003	0.1373	0.0384	5.1800e-003	0.0436		362.6721	362.6721	8.7300e-003	0.0533	378.7757
Worker	0.1253	0.0610	1.3195	4.4100e-003	0.5667	1.9000e-003	0.5686	0.1512	1.7500e-003	0.1530		479.3459	479.3459	6.4200e-003	8.5700e-003	482.0608

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1483	0.8107	1.6172	7.8000e-003	0.6986	7.3200e-003	0.7059	0.1896	6.9300e-003	0.1965		842.0180	842.0180	0.0152	0.0619	860.8365
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3.6 Paving - 2031

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	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.9712	1,550.9712	0.0731		1,552.7983
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.9712	1,550.9712	0.0731		1,552.7983

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0296	0.0144	0.3119	1.0400e-003	0.1453	4.5000e-004	0.1458	0.0385	4.1000e-004	0.0390		113.2999	113.2999	1.5200e-003	2.0300e-003	113.9416
Total	0.0296	0.0144	0.3119	1.0400e-003	0.1453	4.5000e-004	0.1458	0.0385	4.1000e-004	0.0390		113.2999	113.2999	1.5200e-003	2.0300e-003	113.9416

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728	0.0000	1,550.9712	1,550.9712	0.0731		1,552.7983
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728	0.0000	1,550.9712	1,550.9712	0.0731		1,552.7983

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0296	0.0144	0.3119	1.0400e-003	0.1339	4.5000e-004	0.1344	0.0358	4.1000e-004	0.0362		113.2999	113.2999	1.5200e-003	2.0300e-003	113.9416
Total	0.0296	0.0144	0.3119	1.0400e-003	0.1339	4.5000e-004	0.1344	0.0358	4.1000e-004	0.0362		113.2999	113.2999	1.5200e-003	2.0300e-003	113.9416

3.7 Architectural Coating - 2031

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
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Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Archit. Coating	24.3964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	24.5271	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0251	0.0122	0.2639	8.8000e-004	0.1230	3.8000e-004	0.1233	0.0326	3.5000e-004	0.0330		95.8692	95.8692	1.2800e-003	1.7100e-003	96.4122
Total	0.0251	0.0122	0.2639	8.8000e-004	0.1230	3.8000e-004	0.1233	0.0326	3.5000e-004	0.0330		95.8692	95.8692	1.2800e-003	1.7100e-003	96.4122

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	24.3964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Construction P2 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	24.5271	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
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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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0251	0.0122	0.2639	8.8000e-004	0.1133	3.8000e-004	0.1137	0.0303	3.5000e-004	0.0306		95.8692	95.8692	1.2800e-003	1.7100e-003	96.4122
Total	0.0251	0.0122	0.2639	8.8000e-004	0.1133	3.8000e-004	0.1137	0.0303	3.5000e-004	0.0306		95.8692	95.8692	1.2800e-003	1.7100e-003	96.4122

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P2 - Mitigated
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	131.59	1000sqft	1.23	131,587.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2031

Utility Company

CO2 Intensity (lb/MWahr)	0	CH4 Intensity (lb/MWahr)	0	N2O Intensity (lb/MWahr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Based on information on provided by the College District.
 Trips and VMT - See Construction Phase 2 assumptions file in the AQ/GHG appendix of the DEIR.
 Demolition -
 Architectural Coating - Mitigation
 Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.02	1.23
tblTripsAndVMT	HaulingTripNumber	367.00	368.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	1.4044	10.1886	13.9106	0.0386	7.2328	0.2363	7.4206	3.4655	0.2353	3.6532	0.0000	3,799.0642	3,799.0642	0.1597	0.1650	3,852.2373
2031	24.5517	8.0442	13.5090	0.0312	0.7557	0.1733	0.8901	0.2036	0.1732	0.3376	0.0000	2,950.9452	2,950.9452	0.1115	0.0623	2,972.2994
Maximum	24.5517	10.1886	13.9106	0.0386	7.2328	0.2363	7.4206	3.4655	0.2353	3.6532	0.0000	3,799.0642	3,799.0642	0.1597	0.1650	3,852.2373

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					
2030	1.4044	10.1886	13.9106	0.0386	3.1668	0.2363	3.3546	1.5020	0.2353	1.6897	0.0000	3,799.0642	3,799.0642	0.1597	0.1650	3,852.2373
2031	24.5517	8.0442	13.5090	0.0312	0.6986	0.1733	0.8329	0.1896	0.1732	0.3236	0.0000	2,950.9452	2,950.9452	0.1115	0.0623	2,972.2994
Maximum	24.5517	10.1886	13.9106	0.0386	3.1668	0.2363	3.3546	1.5020	0.2353	1.6897	0.0000	3,799.0642	3,799.0642	0.1597	0.1650	3,852.2373

	ROG	NOx	CO	SO2	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	51.61	0.00	49.61	53.89	0.00	49.55	0.00	0.00	0.00	0.00	0.00	0.00

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	8/1/2030	8/28/2030	5	20	
2	Site Preparation	Site Preparation	8/29/2030	8/30/2030	5	2	
3	Grading	Grading	8/31/2030	9/5/2030	5	4	
4	Building Construction	Building Construction	9/6/2030	6/12/2031	5	200	
5	Paving	Paving	6/13/2031	6/26/2031	5	10	
6	Architectural Coating	Architectural Coating	6/27/2031	7/10/2031	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 197,381; Non-Residential Outdoor: 65,794; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	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
Demolition	5	13.00	4.00	368.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	55.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2030

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.9706	0.0000	3.9706	0.6012	0.0000	0.6012			0.0000			0.0000
Off-Road	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148		2,662.1297	2,662.1297	0.1177		2,665.0713

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.3307	8.0078	12.9685	0.0281	3.9706	0.2148	4.1853	0.6012	0.2148	0.8159		2,662.1297	2,662.1297	0.1177		2,665.0713
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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	0.0388	2.0205	0.6191	8.8700e-003	0.3222	0.0201	0.3422	0.0883	0.0192	0.1075		965.5717	965.5717	0.0388	0.1530	1,012.1272
Vendor	3.8700e-003	0.1442	0.0560	6.3000e-004	0.0256	1.0100e-003	0.0266	7.3800e-003	9.7000e-004	8.3500e-003		67.2671	67.2671	1.6100e-003	9.9000e-003	70.2579
Worker	0.0310	0.0163	0.2670	9.6000e-004	0.1453	4.8000e-004	0.1458	0.0385	4.4000e-004	0.0390		104.0957	104.0957	1.6700e-003	2.1600e-003	104.7809
Total	0.0737	2.1809	0.9420	0.0105	0.4931	0.0215	0.5147	0.1343	0.0206	0.1549		1,136.9345	1,136.9345	0.0420	0.1650	1,187.1660

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6974	0.0000	1.6974	0.2570	0.0000	0.2570			0.0000			0.0000
Off-Road	1.3307	8.0078	12.9685	0.0281		0.2148	0.2148		0.2148	0.2148	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713
Total	1.3307	8.0078	12.9685	0.0281	1.6974	0.2148	1.9122	0.2570	0.2148	0.4718	0.0000	2,662.1297	2,662.1297	0.1177		2,665.0713

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0388	2.0205	0.6191	8.8700e-003	0.3003	0.0201	0.3203	0.0830	0.0192	0.1022		965.5717	965.5717	0.0388	0.1530	1,012.1272
Vendor	3.8700e-003	0.1442	0.0560	6.3000e-004	0.0240	1.0100e-003	0.0250	6.9800e-003	9.7000e-004	7.9400e-003		67.2671	67.2671	1.6100e-003	9.9000e-003	70.2579
Worker	0.0310	0.0163	0.2670	9.6000e-004	0.1339	4.8000e-004	0.1344	0.0358	4.4000e-004	0.0362		104.0957	104.0957	1.6700e-003	2.1600e-003	104.7809
Total	0.0737	2.1809	0.9420	0.0105	0.4582	0.0215	0.4797	0.1257	0.0206	0.1463		1,136.9345	1,136.9345	0.0420	0.1650	1,187.1660

3.3 Site Preparation - 2030

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					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567		1,994.6929	1,994.6929	0.0866		1,996.8585
Total	0.9750	4.7401	5.9133	0.0211	6.2662	0.1567	6.4229	3.0041	0.1567	3.1607		1,994.6929	1,994.6929	0.0866		1,996.8585

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	3.8700e-003	0.1442	0.0560	6.3000e-004	0.0256	1.0100e-003	0.0266	7.3800e-003	9.7000e-004	8.3500e-003	67.2671	67.2671	1.6100e-003	9.9000e-003	70.2579	
Worker	0.0191	0.0100	0.1643	5.9000e-004	0.0894	2.9000e-004	0.0897	0.0237	2.7000e-004	0.0240	64.0589	64.0589	1.0300e-003	1.3300e-003	64.4805	
Total	0.0229	0.1542	0.2203	1.2200e-003	0.1151	1.3000e-003	0.1164	0.0311	1.2400e-003	0.0323	131.3260	131.3260	2.6400e-003	0.0112	134.7384	

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					2.6788	0.0000	2.6788	1.2843	0.0000	1.2843			0.0000			0.0000
Off-Road	0.9750	4.7401	5.9133	0.0211		0.1567	0.1567		0.1567	0.1567	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585
Total	0.9750	4.7401	5.9133	0.0211	2.6788	0.1567	2.8355	1.2843	0.1567	1.4409	0.0000	1,994.6929	1,994.6929	0.0866		1,996.8585

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	0.0000
Vendor	3.8700e-003	0.1442	0.0560	6.3000e-004	0.0240	1.0100e-003	0.0250	6.9800e-003	9.7000e-004	7.9400e-003	67.2671	67.2671	1.6100e-003	9.9000e-003	70.2579	

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0191	0.0100	0.1643	5.9000e-004	0.0824	2.9000e-004	0.0827	0.0220	2.7000e-004	0.0223		64.0589	64.0589	1.0300e-003	1.3300e-003	64.4805
Total	0.0229	0.1542	0.2203	1.2200e-003	0.1064	1.3000e-003	0.1077	0.0290	1.2400e-003	0.0302		131.3260	131.3260	2.6400e-003	0.0112	134.7384

3.4 Grading - 2030

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859		2,388.2741	2,388.2741	0.1046		2,390.8880
Total	1.1771	5.9092	7.9601	0.0252	7.0826	0.1859	7.2685	3.4247	0.1859	3.6107		2,388.2741	2,388.2741	0.1046		2,390.8880

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	0.0000
Vendor	5.8000e-003	0.2162	0.0840	9.4000e-004	0.0384	1.5200e-003	0.0400	0.0111	1.4500e-003	0.0125		100.9007	100.9007	2.4200e-003	0.0149	105.3868
Worker	0.0238	0.0125	0.2054	7.4000e-004	0.1118	3.7000e-004	0.1121	0.0296	3.4000e-004	0.0300		80.0736	80.0736	1.2800e-003	1.6600e-003	80.6007
Total	0.0296	0.2287	0.2894	1.6800e-003	0.1502	1.8900e-003	0.1521	0.0407	1.7900e-003	0.0425		180.9742	180.9742	3.7000e-003	0.0165	185.9875

**Construction P2 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.1771	5.9092	7.9601	0.0252		0.1859	0.1859		0.1859	0.1859	0.0000	2,388.2741	2,388.2741	0.1046		2,390.8880
Total	1.1771	5.9092	7.9601	0.0252	3.0278	0.1859	3.2137	1.4641	0.1859	1.6500	0.0000	2,388.2741	2,388.2741	0.1046		2,390.8880

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	0.0000
Vendor	5.8000e-003	0.2162	0.0840	9.4000e-004	0.0360	1.5200e-003	0.0375	0.0105	1.4500e-003	0.0119		100.9007	100.9007	2.4200e-003	0.0149	105.3868
Worker	0.0238	0.0125	0.2054	7.4000e-004	0.1030	3.7000e-004	0.1034	0.0275	3.4000e-004	0.0278		80.0736	80.0736	1.2800e-003	1.6600e-003	80.6007
Total	0.0296	0.2287	0.2894	1.6800e-003	0.1390	1.8900e-003	0.1409	0.0380	1.7900e-003	0.0397		180.9742	180.9742	3.7000e-003	0.0165	185.9875

3.5 Building Construction - 2030

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
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Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Off-Road	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	2,152.6566	2,152.6566	0.0964		2,155.0655

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	0.0000
Vendor	0.0213	0.7928	0.3080	3.4500e-003	0.1409	5.5600e-003	0.1465	0.0406	5.3200e-003	0.0459		369.9691	369.9691	8.8600e-003	0.0545	386.4182
Worker	0.1311	0.0688	1.1295	4.0700e-003	0.6148	2.0200e-003	0.6168	0.1630	1.8600e-003	0.1649		440.4048	440.4048	7.0500e-003	9.1400e-003	443.3037
Total	0.1523	0.8616	1.4374	7.5200e-003	0.7557	7.5800e-003	0.7633	0.2036	7.1800e-003	0.2108		810.3738	810.3738	0.0159	0.0636	829.7219

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655

**Construction P2 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	0.0000
Vendor	0.0213	0.7928	0.3080	3.4500e-003	0.1319	5.5600e-003	0.1375	0.0384	5.3200e-003	0.0437		369.9691	369.9691	8.8600e-003	0.0545	386.4182
Worker	0.1311	0.0688	1.1295	4.0700e-003	0.5667	2.0200e-003	0.5687	0.1512	1.8600e-003	0.1531		440.4048	440.4048	7.0500e-003	9.1400e-003	443.3037
Total	0.1523	0.8616	1.4374	7.5200e-003	0.6986	7.5800e-003	0.7062	0.1896	7.1800e-003	0.1968		810.3738	810.3738	0.0159	0.0636	829.7219

**3.5 Building Construction - 2031
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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270		2,152.6566	2,152.6566	0.0964		2,155.0655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0211	0.7922	0.3071	3.4000e-003	0.1409	5.4300e-003	0.1464	0.0406	5.2000e-003	0.0458	363.6002	363.6002	8.6400e-003	0.0535	379.7510	
Worker	0.1227	0.0639	1.0919	3.9900e-003	0.6148	1.9000e-003	0.6167	0.1630	1.7500e-003	0.1648	434.6884	434.6884	6.5400e-003	8.8300e-003	437.4830	
Total	0.1438	0.8561	1.3990	7.3900e-003	0.7557	7.3300e-003	0.7630	0.2036	6.9500e-003	0.2106	798.2886	798.2886	0.0152	0.0623	817.2340	

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	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655
Total	1.0812	7.1882	12.1101	0.0238		0.1270	0.1270		0.1270	0.1270	0.0000	2,152.6566	2,152.6566	0.0964		2,155.0655

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	0.0000
Vendor	0.0211	0.7922	0.3071	3.4000e-003	0.1319	5.4300e-003	0.1373	0.0384	5.2000e-003	0.0436		363.6002	363.6002	8.6400e-003	0.0535	379.7510
Worker	0.1227	0.0639	1.0919	3.9900e-003	0.5667	1.9000e-003	0.5686	0.1512	1.7500e-003	0.1530		434.6884	434.6884	6.5400e-003	8.8300e-003	437.4830

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1438	0.8561	1.3990	7.3900e-003	0.6986	7.3300e-003	0.7059	0.1896	6.9500e-003	0.1965		798.2886	798.2886	0.0152	0.0623	817.2340
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3.6 Paving - 2031

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	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.9712	1,550.9712	0.0731		1,552.7983
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728		1,550.9712	1,550.9712	0.0731		1,552.7983

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0151	0.2581	9.4000e-004	0.1453	4.5000e-004	0.1458	0.0385	4.1000e-004	0.0390		102.7445	102.7445	1.5500e-003	2.0900e-003	103.4051
Total	0.0290	0.0151	0.2581	9.4000e-004	0.1453	4.5000e-004	0.1458	0.0385	4.1000e-004	0.0390		102.7445	102.7445	1.5500e-003	2.0900e-003	103.4051

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728	0.0000	1,550.9712	1,550.9712	0.0731		1,552.7983
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8162	4.3905	9.4567	0.0165		0.1728	0.1728		0.1728	0.1728	0.0000	1,550.9712	1,550.9712	0.0731		1,552.7983

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0151	0.2581	9.4000e-004	0.1339	4.5000e-004	0.1344	0.0358	4.1000e-004	0.0362		102.7445	102.7445	1.5500e-003	2.0900e-003	103.4051
Total	0.0290	0.0151	0.2581	9.4000e-004	0.1339	4.5000e-004	0.1344	0.0358	4.1000e-004	0.0362		102.7445	102.7445	1.5500e-003	2.0900e-003	103.4051

3.7 Architectural Coating - 2031

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
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Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Archit. Coating	24.3964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	24.5271	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0128	0.2184	8.0000e-004	0.1230	3.8000e-004	0.1233	0.0326	3.5000e-004	0.0330		86.9377	86.9377	1.3100e-003	1.7700e-003	87.4966
Total	0.0245	0.0128	0.2184	8.0000e-004	0.1230	3.8000e-004	0.1233	0.0326	3.5000e-004	0.0330		86.9377	86.9377	1.3100e-003	1.7700e-003	87.4966

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	24.3964					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Construction P2 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	24.5271	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
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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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0245	0.0128	0.2184	8.0000e-004	0.1133	3.8000e-004	0.1137	0.0303	3.5000e-004	0.0306		86.9377	86.9377	1.3100e-003	1.7700e-003	87.4966
Total	0.0245	0.0128	0.2184	8.0000e-004	0.1133	3.8000e-004	0.1137	0.0303	3.5000e-004	0.0306		86.9377	86.9377	1.3100e-003	1.7700e-003	87.4966

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction P2 - Mitigated
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	131.59	1000sqft	1.23	131,587.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2031

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information on provided by the College District.
- Trips and VMT - See Construction Phase 2 assumptions file in the AQ/GHG appendix of the DEIR.
- Demolition -
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.02	1.23
tblTripsAndVMT	HaulingTripNumber	367.00	368.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction
Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.0682	0.4532	0.7261	1.7700e-003	0.0962	8.4800e-003	0.1047	0.0256	8.4600e-003	0.0341	0.0000	152.9257	152.9257	5.9600e-003	3.9400e-003	154.2484
2031	0.1981	0.4969	0.8518	1.9400e-003	0.0447	8.8300e-003	0.0535	0.0121	8.8100e-003	0.0209	0.0000	166.2211	166.2211	6.3200e-003	3.3400e-003	167.3730
Maximum	0.1981	0.4969	0.8518	1.9400e-003	0.0962	8.8300e-003	0.1047	0.0256	8.8100e-003	0.0341	0.0000	166.2211	166.2211	6.3200e-003	3.9400e-003	167.3730

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					
2030	0.0682	0.4531	0.7261	1.7700e-003	0.0591	8.4800e-003	0.0675	0.0159	8.4600e-003	0.0243	0.0000	152.9256	152.9256	5.9600e-003	3.9400e-003	154.2483
2031	0.1981	0.4969	0.8518	1.9400e-003	0.0413	8.8300e-003	0.0502	0.0112	8.8100e-003	0.0200	0.0000	166.2209	166.2209	6.3200e-003	3.3400e-003	167.3729
Maximum	0.1981	0.4969	0.8518	1.9400e-003	0.0591	8.8300e-003	0.0675	0.0159	8.8100e-003	0.0243	0.0000	166.2209	166.2209	6.3200e-003	3.9400e-003	167.3729

	ROG	NOx	CO	SO2	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	28.74	0.00	25.59	28.09	0.00	19.24	0.00	0.00	0.00	0.00	0.00	0.00

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2030	10-31-2030	0.3201	0.3201
2	11-1-2030	1-31-2031	0.3049	0.3049
3	2-1-2031	4-30-2031	0.2942	0.2942
4	5-1-2031	7-31-2031	0.2951	0.2951
		Highest	0.3201	0.3201

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	8/1/2030	8/28/2030	5	20	
2	Site Preparation	Site Preparation	8/29/2030	8/30/2030	5	2	
3	Grading	Grading	8/31/2030	9/5/2030	5	4	
4	Building Construction	Building Construction	9/6/2030	6/12/2031	5	200	
5	Paving	Paving	6/13/2031	6/26/2031	5	10	
6	Architectural Coating	Architectural Coating	6/27/2031	7/10/2031	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 197,381; Non-Residential Outdoor: 65,794; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	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
Demolition	5	13.00	4.00	368.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	55.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2030

Unmitigated Construction On-Site

**Construction P2 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0397	0.0000	0.0397	6.0100e-003	0.0000	6.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0801	0.1297	2.8000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	24.1504	24.1504	1.0700e-003	0.0000	24.1771
Total	0.0133	0.0801	0.1297	2.8000e-004	0.0397	2.1500e-003	0.0419	6.0100e-003	2.1500e-003	8.1600e-003	0.0000	24.1504	24.1504	1.0700e-003	0.0000	24.1771

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	4.1000e-004	0.0203	6.1300e-003	9.0000e-005	3.1700e-003	2.0000e-004	3.3700e-003	8.7000e-004	1.9000e-004	1.0600e-003	0.0000	8.7515	8.7515	3.5000e-004	1.3900e-003	9.1735
Vendor	4.0000e-005	1.4300e-003	5.5000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6093	0.6093	1.0000e-005	9.0000e-005	0.6364
Worker	2.8000e-004	1.7000e-004	2.8000e-003	1.0000e-005	1.4300e-003	0.0000	1.4300e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.9629	0.9629	2.0000e-005	2.0000e-005	0.9693
Total	7.3000e-004	0.0219	9.4800e-003	1.1000e-004	4.8500e-003	2.1000e-004	5.0600e-003	1.3200e-003	2.0000e-004	1.5200e-003	0.0000	10.3237	10.3237	3.8000e-004	1.5000e-003	10.7792

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					

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					0.0170	0.0000	0.0170	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0801	0.1297	2.8000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	24.1504	24.1504	1.0700e-003	0.0000	24.1771
Total	0.0133	0.0801	0.1297	2.8000e-004	0.0170	2.1500e-003	0.0191	2.5700e-003	2.1500e-003	4.7200e-003	0.0000	24.1504	24.1504	1.0700e-003	0.0000	24.1771

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	4.1000e-004	0.0203	6.1300e-003	9.0000e-005	2.9500e-003	2.0000e-004	3.1500e-003	8.2000e-004	1.9000e-004	1.0100e-003	0.0000	8.7515	8.7515	3.5000e-004	1.3900e-003	9.1735
Vendor	4.0000e-005	1.4300e-003	5.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.6093	0.6093	1.0000e-005	9.0000e-005	0.6364
Worker	2.8000e-004	1.7000e-004	2.8000e-003	1.0000e-005	1.3100e-003	0.0000	1.3200e-003	3.5000e-004	0.0000	3.6000e-004	0.0000	0.9629	0.9629	2.0000e-005	2.0000e-005	0.9693
Total	7.3000e-004	0.0219	9.4800e-003	1.1000e-004	4.5000e-003	2.1000e-004	4.7200e-003	1.2400e-003	2.0000e-004	1.4500e-003	0.0000	10.3237	10.3237	3.8000e-004	1.5000e-003	10.7792

3.3 Site Preparation - 2030

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					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115
Total	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005	6.2700e-003	1.6000e-004	6.4300e-003	3.0000e-003	1.6000e-004	3.1600e-003	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115

**Construction P2 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	1.4000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0609	0.0609	0.0000	1.0000e-005	0.0636
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0593	0.0593	0.0000	0.0000	0.0597
Total	2.0000e-005	1.5000e-004	2.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1202	0.1202	0.0000	1.0000e-005	0.1233

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					2.6800e-003	0.0000	2.6800e-003	1.2800e-003	0.0000	1.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115
Total	9.8000e-004	4.7400e-003	5.9100e-003	2.0000e-005	2.6800e-003	1.6000e-004	2.8400e-003	1.2800e-003	1.6000e-004	1.4400e-003	0.0000	1.8096	1.8096	8.0000e-005	0.0000	1.8115

Mitigated Construction Off-Site

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	1.4000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0609	0.0609	0.0000	1.0000e-005	0.0636
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0593	0.0593	0.0000	0.0000	0.0597
Total	2.0000e-005	1.5000e-004	2.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1202	0.1202	0.0000	1.0000e-005	0.1233

3.4 Grading - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3500e-003	0.0118	0.0159	5.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	4.3332	4.3332	1.9000e-004	0.0000	4.3380
Total	2.3500e-003	0.0118	0.0159	5.0000e-005	0.0142	3.7000e-004	0.0145	6.8500e-003	3.7000e-004	7.2200e-003	0.0000	4.3332	4.3332	1.9000e-004	0.0000	4.3380

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					

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.3000e-004	1.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1828	0.1828	0.0000	3.0000e-005	0.1909
Worker	4.0000e-005	3.0000e-005	4.3000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1481	0.1481	0.0000	0.0000	0.1491
Total	5.0000e-005	4.6000e-004	6.0000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3309	0.3309	0.0000	3.0000e-005	0.3401

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					6.0600e-003	0.0000	6.0600e-003	2.9300e-003	0.0000	2.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3500e-003	0.0118	0.0159	5.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	4.3332	4.3332	1.9000e-004	0.0000	4.3380
Total	2.3500e-003	0.0118	0.0159	5.0000e-005	6.0600e-003	3.7000e-004	6.4300e-003	2.9300e-003	3.7000e-004	3.3000e-003	0.0000	4.3332	4.3332	1.9000e-004	0.0000	4.3380

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.3000e-004	1.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1828	0.1828	0.0000	3.0000e-005	0.1909
Worker	4.0000e-005	3.0000e-005	4.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1481	0.1481	0.0000	0.0000	0.1491

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	5.0000e-005	4.6000e-004	6.0000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3309	0.3309	0.0000	3.0000e-005	0.3401
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3.5 Building Construction - 2030

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	0.0449	0.2983	0.5026	9.9000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	81.0436	81.0436	3.6300e-003	0.0000	81.1343
Total	0.0449	0.2983	0.5026	9.9000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	81.0436	81.0436	3.6300e-003	0.0000	81.1343

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	9.2000e-004	0.0327	0.0126	1.4000e-004	5.7600e-003	2.3000e-004	5.9900e-003	1.6600e-003	2.2000e-004	1.8800e-003	0.0000	13.9082	13.9082	3.4000e-004	2.0500e-003	14.5266
Worker	4.9900e-003	2.9900e-003	0.0491	1.7000e-004	0.0250	8.0000e-005	0.0251	6.6500e-003	8.0000e-005	6.7200e-003	0.0000	16.9059	16.9059	2.7000e-004	3.5000e-004	17.0184
Total	5.9100e-003	0.0357	0.0617	3.1000e-004	0.0308	3.1000e-004	0.0311	8.3100e-003	3.0000e-004	8.6000e-003	0.0000	30.8141	30.8141	6.1000e-004	2.4000e-003	31.5450

Mitigated Construction On-Site

**Construction P2 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive 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	0.0449	0.2983	0.5026	9.9000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	81.0435	81.0435	3.6300e-003	0.0000	81.1342
Total	0.0449	0.2983	0.5026	9.9000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	81.0435	81.0435	3.6300e-003	0.0000	81.1342

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	9.2000e-004	0.0327	0.0126	1.4000e-004	5.3900e-003	2.3000e-004	5.6200e-003	1.5700e-003	2.2000e-004	1.7900e-003	0.0000	13.9082	13.9082	3.4000e-004	2.0500e-003	14.5266
Worker	4.9900e-003	2.9900e-003	0.0491	1.7000e-004	0.0231	8.0000e-005	0.0232	6.1700e-003	8.0000e-005	6.2400e-003	0.0000	16.9059	16.9059	2.7000e-004	3.5000e-004	17.0184
Total	5.9100e-003	0.0357	0.0617	3.1000e-004	0.0285	3.1000e-004	0.0288	7.7400e-003	3.0000e-004	8.0300e-003	0.0000	30.8141	30.8141	6.1000e-004	2.4000e-003	31.5450

3.5 Building Construction - 2031

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	0.0633	0.4205	0.7084	1.3900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	114.2422	114.2422	5.1100e-003	0.0000	114.3700

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0633	0.4205	0.7084	1.3900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	114.2422	114.2422	5.1100e-003	0.0000	114.3700
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2900e-003	0.0461	0.0177	2.0000e-004	8.1200e-003	3.2000e-004	8.4300e-003	2.3400e-003	3.0000e-004	2.6500e-003	0.0000	19.2679	19.2679	4.6000e-004	2.8300e-003	20.1238
Worker	6.5800e-003	3.9100e-003	0.0670	2.4000e-004	0.0353	1.1000e-004	0.0354	9.3700e-003	1.0000e-004	9.4700e-003	0.0000	23.5221	23.5221	3.5000e-004	4.8000e-004	23.6749
Total	7.8700e-003	0.0500	0.0846	4.4000e-004	0.0434	4.3000e-004	0.0438	0.0117	4.0000e-004	0.0121	0.0000	42.7899	42.7899	8.1000e-004	3.3100e-003	43.7987

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	0.0633	0.4205	0.7084	1.3900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	114.2420	114.2420	5.1100e-003	0.0000	114.3699
Total	0.0633	0.4205	0.7084	1.3900e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	114.2420	114.2420	5.1100e-003	0.0000	114.3699

Mitigated Construction Off-Site

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2900e-003	0.0461	0.0177	2.0000e-004	7.6000e-003	3.2000e-004	7.9200e-003	2.2200e-003	3.0000e-004	2.5200e-003	0.0000	19.2679	19.2679	4.6000e-004	2.8300e-003	20.1238
Worker	6.5800e-003	3.9100e-003	0.0670	2.4000e-004	0.0325	1.1000e-004	0.0326	8.6900e-003	1.0000e-004	8.8000e-003	0.0000	23.5221	23.5221	3.5000e-004	4.8000e-004	23.6749
Total	7.8700e-003	0.0500	0.0846	4.4000e-004	0.0401	4.3000e-004	0.0406	0.0109	4.0000e-004	0.0113	0.0000	42.7899	42.7899	8.1000e-004	3.3100e-003	43.7987

3.6 Paving - 2031

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	4.0800e-003	0.0220	0.0473	8.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	7.0351	7.0351	3.3000e-004	0.0000	7.0434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.0800e-003	0.0220	0.0473	8.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	7.0351	7.0351	3.3000e-004	0.0000	7.0434

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					

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.3000e-004	8.0000e-005	1.3500e-003	0.0000	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4752	0.4752	1.0000e-005	1.0000e-005	0.4783
Total	1.3000e-004	8.0000e-005	1.3500e-003	0.0000	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4752	0.4752	1.0000e-005	1.0000e-005	0.4783

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	4.0800e-003	0.0220	0.0473	8.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	7.0351	7.0351	3.3000e-004	0.0000	7.0434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.0800e-003	0.0220	0.0473	8.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	7.0351	7.0351	3.3000e-004	0.0000	7.0434

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	1.3000e-004	8.0000e-005	1.3500e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4752	0.4752	1.0000e-005	1.0000e-005	0.4783

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.3000e-004	8.0000e-005	1.3500e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4752	0.4752	1.0000e-005	1.0000e-005	0.4783
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3.7 Architectural Coating - 2031

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	0.1220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	4.2800e-003	8.9900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.2766	1.2766	5.0000e-005	0.0000	1.2779
Total	0.1226	4.2800e-003	8.9900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.2766	1.2766	5.0000e-005	0.0000	1.2779

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	1.1000e-004	7.0000e-005	1.1400e-003	0.0000	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4021	0.4021	1.0000e-005	1.0000e-005	0.4047
Total	1.1000e-004	7.0000e-005	1.1400e-003	0.0000	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4021	0.4021	1.0000e-005	1.0000e-005	0.4047

Construction P2 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.1220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	4.2800e-003	8.9900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.2766	1.2766	5.0000e-005	0.0000	1.2779
Total	0.1226	4.2800e-003	8.9900e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.2766	1.2766	5.0000e-005	0.0000	1.2779

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	1.1000e-004	7.0000e-005	1.1400e-003	0.0000	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4021	0.4021	1.0000e-005	1.0000e-005	0.4047
Total	1.1000e-004	7.0000e-005	1.1400e-003	0.0000	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4021	0.4021	1.0000e-005	1.0000e-005	0.4047

Construction P2 - Mitigated
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0		1	No Change
Cement and Mortar Mixers	Diesel	No Change	0		1	No Change
Concrete/Industrial Saws	Diesel	No Change	0		1	No Change
Cranes	Diesel	No Change	0		1	No Change
Forklifts	Diesel	No Change	0		1	No Change
Generator Sets	Diesel	No Change	0		1	No Change
Graders	Diesel	No Change	0		2	No Change
Pavers	Diesel	No Change	0		1	No Change
Paving Equipment	Diesel	No Change	0		1	No Change
Rollers	Diesel	No Change	0		1	No Change
Rubber Tired Dozers	Diesel	No Change	0		3	No Change
Tractors/Loaders/Backhoes	Diesel	No Change	0		8	No Change
Welders	Diesel	No Change	0		3	No Change

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction P2 - Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	6.50000E-004	4.28000E-003	8.99000E-003	1.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	1.27663E+000	1.27663E+000	5.00000E-005	0.00000E+000	1.27792E+000	
Cement and Mortar	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001	
Mixers Concrete/Industrial	2.30000E-003	1.73800E-002	3.62900E-002	6.00000E-005	3.80000E-004	3.80000E-004	0.00000E+000	5.37656E+000	5.37656E+000	1.80000E-004	0.00000E+000	5.38106E+000	
Saws Cranes	1.98500E-002	6.62800E-002	1.01640E-001	5.30000E-004	2.13000E-003	2.13000E-003	0.00000E+000	4.56844E+001	4.56844E+001	1.61000E-003	0.00000E+000	4.57246E+001	
Forklifts	6.66000E-003	3.66100E-002	8.94500E-002	1.40000E-004	4.90000E-004	4.90000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.30000E-004	0.00000E+000	1.21522E+001	
Generator Sets	1.95100E-002	1.80340E-001	3.63540E-001	6.60000E-004	3.73000E-003	3.73000E-003	0.00000E+000	5.65208E+001	5.65208E+001	1.59000E-003	0.00000E+000	5.65605E+001	
Graders	8.80000E-004	2.77000E-003	4.66000E-003	2.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	2.09143E+000	2.09143E+000	7.00000E-005	0.00000E+000	2.09318E+000	
Pavers	1.08000E-003	5.15000E-003	1.20100E-002	2.00000E-005	2.70000E-004	2.70000E-004	0.00000E+000	1.86175E+000	1.86175E+000	9.00000E-005	0.00000E+000	1.86396E+000	
Paving Equipment	1.22000E-003	5.71000E-003	1.38500E-002	3.00000E-005	2.90000E-004	2.90000E-004	0.00000E+000	2.16045E+000	2.16045E+000	1.00000E-004	0.00000E+000	2.16292E+000	
Rollers	7.00000E-004	4.57000E-003	8.54000E-003	1.00000E-005	1.50000E-004	1.50000E-004	0.00000E+000	1.20934E+000	1.20934E+000	6.00000E-005	0.00000E+000	1.21078E+000	
Rubber Tired Dozers	7.52000E-003	4.10100E-002	2.96600E-002	1.30000E-004	1.55000E-003	1.55000E-003	0.00000E+000	1.15665E+001	1.15665E+001	6.10000E-004	0.00000E+000	1.15817E+001	
Tractors/Loaders/Backhoes	1.97100E-002	1.17700E-001	2.68530E-001	4.30000E-004	2.17000E-003	2.17000E-003	0.00000E+000	3.73659E+001	3.73659E+001	1.58000E-003	0.00000E+000	3.74054E+001	
Welders	4.91800E-002	3.58480E-001	4.80490E-001	7.70000E-004	4.93000E-003	4.93000E-003	0.00000E+000	5.64662E+001	5.64662E+001	3.97000E-003	0.00000E+000	5.65656E+001	

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	6.50000E-004	4.28000E-003	8.99000E-003	1.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	1.27663E+000	1.27663E+000	5.00000E-005	0.00000E+000	1.27792E+000
Cement and Mortar	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Mixers Concrete/Industrial	2.30000E-003	1.73800E-002	3.62900E-002	6.00000E-005	3.80000E-004	3.80000E-004	0.00000E+000	5.37656E+000	5.37656E+000	1.80000E-004	0.00000E+000	5.38105E+000
Saws Cranes	1.98500E-002	6.62800E-002	1.01640E-001	5.30000E-004	2.13000E-003	2.13000E-003	0.00000E+000	4.56844E+001	4.56844E+001	1.61000E-003	0.00000E+000	4.57246E+001
Forklifts	6.66000E-003	3.66100E-002	8.94500E-002	1.40000E-004	4.90000E-004	4.90000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.30000E-004	0.00000E+000	1.21522E+001
Generator Sets	1.95100E-002	1.80340E-001	3.63540E-001	6.60000E-004	3.73000E-003	3.73000E-003	0.00000E+000	5.65207E+001	5.65207E+001	1.59000E-003	0.00000E+000	5.65605E+001
Graders	8.80000E-004	2.77000E-003	4.66000E-003	2.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	2.09143E+000	2.09143E+000	7.00000E-005	0.00000E+000	2.09318E+000
Pavers	1.08000E-003	5.15000E-003	1.20100E-002	2.00000E-005	2.70000E-004	2.70000E-004	0.00000E+000	1.86175E+000	1.86175E+000	9.00000E-005	0.00000E+000	1.86396E+000
Paving Equipment	1.22000E-003	5.71000E-003	1.38500E-002	3.00000E-005	2.90000E-004	2.90000E-004	0.00000E+000	2.16044E+000	2.16044E+000	1.00000E-004	0.00000E+000	2.16291E+000
Rollers	7.00000E-004	4.57000E-003	8.54000E-003	1.00000E-005	1.50000E-004	1.50000E-004	0.00000E+000	1.20934E+000	1.20934E+000	6.00000E-005	0.00000E+000	1.21078E+000
Rubber Tired Dozers	7.52000E-003	4.10100E-002	2.96600E-002	1.30000E-004	1.55000E-003	1.55000E-003	0.00000E+000	1.15665E+001	1.15665E+001	6.10000E-004	0.00000E+000	1.15817E+001
Tractors/Loaders/Backhoes	1.97100E-002	1.17700E-001	2.68530E-001	4.30000E-004	2.17000E-003	2.17000E-003	0.00000E+000	3.73659E+001	3.73659E+001	1.58000E-003	0.00000E+000	3.74053E+001
Welders	4.91800E-002	3.58480E-001	4.80490E-001	7.70000E-004	4.93000E-003	4.93000E-003	0.00000E+000	5.64661E+001	5.64661E+001	3.97000E-003	0.00000E+000	5.65655E+001

Construction P2 - Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85837E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.09447E-006	1.09447E-006	0.00000E+000	0.00000E+000	1.09350E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.64760E-006	1.64760E-006	0.00000E+000	0.00000E+000	1.64579E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23848E-006	1.23848E-006	0.00000E+000	0.00000E+000	1.23761E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.62867E-006	4.62867E-006	0.00000E+000	0.00000E+000	4.62338E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.72913E-006	1.72913E-006	0.00000E+000	0.00000E+000	8.63428E-007
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07049E-006	1.07049E-006	0.00000E+000	0.00000E+000	1.06936E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.23750E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00
Yes	Clean Paved Road	% PM Reduction	9.00		
				Frequency (per day)	2.00

Construction P2 - Mitigated
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.07	0.02	0.07	0.02	0.08	0.07
Demolition	Fugitive Dust	0.04	0.01	0.02	0.00	0.57	0.57
Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Grading	Fugitive Dust	0.01	0.01	0.01	0.00	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.10	0.13
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.05
Site Preparation	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.17	0.00

CalEEMod Output: Phase 3 Construction

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Construction Phase 3 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 3
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	50.14	1000sqft	0.30	50,136.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2040

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Based on information provided by the College District.
 Construction Phase -
 Trips and VMT - See Construction Phase 3 assumptions worksheet in the AQ/GHG appendix of the DEIR.
 Construction Off-road Equipment Mitigation - Baesd on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	1.15	0.30
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Construction Phase 3 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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					
2038	93.0772	3.4862	7.8578	0.0184	5.4270	0.1072	5.5156	2.5996	0.1071	2.6882	0.0000	1,763.2413	1,763.2413	0.0648	0.0213	1,767.9324
Maximum	93.0772	3.4862	7.8578	0.0184	5.4270	0.1072	5.5156	2.5996	0.1071	2.6882	0.0000	1,763.2413	1,763.2413	0.0648	0.0213	1,767.9324

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					
2038	93.0772	3.4862	7.8578	0.0184	2.3773	0.1072	2.4659	1.1270	0.1071	1.2156	0.0000	1,763.2413	1,763.2413	0.0648	0.0213	1,767.9324
Maximum	93.0772	3.4862	7.8578	0.0184	2.3773	0.1072	2.4659	1.1270	0.1071	1.2156	0.0000	1,763.2413	1,763.2413	0.0648	0.0213	1,767.9324

	ROG	NOx	CO	SO2	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	56.20	0.00	55.29	56.65	0.00	54.78	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	2/13/2038	2/15/2038	5	1	
2	Grading	Grading	2/16/2038	2/17/2038	5	2	

Construction Phase 3 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	Building Construction	Building Construction	2/18/2038	7/7/2038	5	100
4	Paving	Paving	7/8/2038	7/14/2038	5	5
5	Architectural Coating	Architectural Coating	7/15/2038	7/21/2038	5	5

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,204; Non-Residential Outdoor: 25,068; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

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
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	21.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Construction Phase 3 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4284	1.5740	3.8815	0.0119		0.0343	0.0343		0.0343	0.0343		1,128.1977	1,128.1977	0.0376		1,129.1364
Total	0.4284	1.5740	3.8815	0.0119	0.5303	0.0343	0.5646	0.0573	0.0343	0.0916		1,128.1977	1,128.1977	0.0376		1,129.1364

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	0.0000
Vendor	2.0700e-003	0.0673	0.0270	2.9000e-004	0.0128	4.9000e-004	0.0133	3.6900e-003	4.6000e-004	4.1500e-003		31.2614	31.2614	7.3000e-004	4.5800e-003	32.6457
Worker	8.9500e-003	4.4700e-003	0.1063	3.8000e-004	0.0559	1.4000e-004	0.0560	0.0148	1.2000e-004	0.0150		41.8087	41.8087	4.4000e-004	7.1000e-004	42.0314
Total	0.0110	0.0718	0.1332	6.7000e-004	0.0687	6.3000e-004	0.0693	0.0185	5.8000e-004	0.0191		73.0702	73.0702	1.1700e-003	5.2900e-003	74.6771

Construction Phase 3 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.4284	1.5740	3.8815	0.0119		0.0343	0.0343		0.0343	0.0343	0.0000	1,128.1977	1,128.1977	0.0376		1,129.1364
Total	0.4284	1.5740	3.8815	0.0119	0.2267	0.0343	0.2610	0.0245	0.0343	0.0588	0.0000	1,128.1977	1,128.1977	0.0376		1,129.1364

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	0.0000
Vendor	2.0700e-003	0.0673	0.0270	2.9000e-004	0.0120	4.9000e-004	0.0125	3.4900e-003	4.6000e-004	3.9500e-003		31.2614	31.2614	7.3000e-004	4.5800e-003	32.6457
Worker	8.9500e-003	4.4700e-003	0.1063	3.8000e-004	0.0515	1.4000e-004	0.0517	0.0138	1.2000e-004	0.0139		41.8087	41.8087	4.4000e-004	7.1000e-004	42.0314
Total	0.0110	0.0718	0.1332	6.7000e-004	0.0635	6.3000e-004	0.0641	0.0172	5.8000e-004	0.0178		73.0702	73.0702	1.1700e-003	5.2900e-003	74.6771

3.3 Grading - 2038

Unmitigated Construction On-Site

Construction Phase 3 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.7155	2.8730	4.8534	0.0173		0.0874	0.0874		0.0874	0.0874		1,633.8245	1,633.8245	0.0627		1,635.3908
Total	0.7155	2.8730	4.8534	0.0173	5.3119	0.0874	5.3994	2.5686	0.0874	2.6560		1,633.8245	1,633.8245	0.0627		1,635.3908

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	0.0000
Vendor	4.1300e-003	0.1346	0.0540	5.8000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.3000e-004	8.3100e-003		62.5229	62.5229	1.4600e-003	9.1700e-003	65.2914
Worker	0.0143	7.1500e-003	0.1700	6.0000e-004	0.0894	2.2000e-004	0.0896	0.0237	2.0000e-004	0.0239		66.8940	66.8940	7.1000e-004	1.1400e-003	67.2502
Total	0.0185	0.1417	0.2240	1.1800e-003	0.1150	1.1900e-003	0.1162	0.0311	1.1300e-003	0.0322		129.4168	129.4168	2.1700e-003	0.0103	132.5417

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					

Construction Phase 3 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					2.2709	0.0000	2.2709	1.0981	0.0000	1.0981			0.0000		0.0000
Off-Road	0.7155	2.8730	4.8534	0.0173		0.0874	0.0874		0.0874	0.0874	0.0000	1,633.8245	1,633.8245	0.0627	1,635.3908
Total	0.7155	2.8730	4.8534	0.0173	2.2709	0.0874	2.3583	1.0981	0.0874	1.1855	0.0000	1,633.8245	1,633.8245	0.0627	1,635.3908

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	0.0000
Vendor	4.1300e-003	0.1346	0.0540	5.8000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.3000e-004	7.9000e-003		62.5229	62.5229	1.4600e-003	9.1700e-003	65.2914
Worker	0.0143	7.1500e-003	0.1700	6.0000e-004	0.0824	2.2000e-004	0.0826	0.0220	2.0000e-004	0.0222		66.8940	66.8940	7.1000e-004	1.1400e-003	67.2502
Total	0.0185	0.1417	0.2240	1.1800e-003	0.1064	1.1900e-003	0.1076	0.0290	1.1300e-003	0.0301		129.4168	129.4168	2.1700e-003	0.0103	132.5417

3.4 Building Construction - 2038

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	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423		1,322.7958	1,322.7958	0.0511		1,324.0721
Total	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423		1,322.7958	1,322.7958	0.0511		1,324.0721

Construction Phase 3 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	8.2600e-003	0.2692	0.1079	1.1700e-003	0.0513	1.9400e-003	0.0532	0.0148	1.8600e-003	0.0166		125.0458	125.0458	2.9200e-003	0.0183	130.5828
Worker	0.0376	0.0188	0.4463	1.5800e-003	0.2347	5.7000e-004	0.2353	0.0623	5.2000e-004	0.0628		175.5966	175.5966	1.8700e-003	2.9800e-003	176.5319
Total	0.0458	0.2880	0.5542	2.7500e-003	0.2860	2.5100e-003	0.2885	0.0770	2.3800e-003	0.0794		300.6424	300.6424	4.7900e-003	0.0213	307.1147

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	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423	0.0000	1,322.7958	1,322.7958	0.0511		1,324.0721
Total	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423	0.0000	1,322.7958	1,322.7958	0.0511		1,324.0721

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 3 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	8.2600e-003	0.2692	0.1079	1.1700e-003	0.0480	1.9400e-003	0.0499	0.0140	1.8600e-003	0.0158	125.0458	125.0458	2.9200e-003	0.0183	130.5828	
Worker	0.0376	0.0188	0.4463	1.5800e-003	0.2164	5.7000e-004	0.2169	0.0577	5.2000e-004	0.0583	175.5966	175.5966	1.8700e-003	2.9800e-003	176.5319	
Total	0.0458	0.2880	0.5542	2.7500e-003	0.2643	2.5100e-003	0.2668	0.0717	2.3800e-003	0.0741	300.6424	300.6424	4.7900e-003	0.0213	307.1147	

3.5 Paving - 2038

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	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067		1,211.7777	1,211.7777	0.0578		1,213.2227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067		1,211.7777	1,211.7777	0.0578		1,213.2227

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	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

Construction Phase 3 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0322	0.0161	0.3826	1.3500e-003	0.2012	4.9000e-004	0.2017	0.0534	4.5000e-004	0.0538		150.5114	150.5114	1.6000e-003	2.5600e-003	151.3130
Total	0.0322	0.0161	0.3826	1.3500e-003	0.2012	4.9000e-004	0.2017	0.0534	4.5000e-004	0.0538		150.5114	150.5114	1.6000e-003	2.5600e-003	151.3130

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	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067	0.0000	1,211.7777	1,211.7777	0.0578		1,213.2227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067	0.0000	1,211.7777	1,211.7777	0.0578		1,213.2227

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0322	0.0161	0.3826	1.3500e-003	0.1855	4.9000e-004	0.1859	0.0495	4.5000e-004	0.0499		150.5114	150.5114	1.6000e-003	2.5600e-003	151.3130
Total	0.0322	0.0161	0.3826	1.3500e-003	0.1855	4.9000e-004	0.1859	0.0495	4.5000e-004	0.0499		150.5114	150.5114	1.6000e-003	2.5600e-003	151.3130

Construction Phase 3 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2038

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	92.9521					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	93.0700	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1600e-003	3.5800e-003	0.0850	3.0000e-004	0.0447	1.1000e-004	0.0448	0.0119	1.0000e-004	0.0120		33.4470	33.4470	3.6000e-004	5.7000e-004	33.6251
Total	7.1600e-003	3.5800e-003	0.0850	3.0000e-004	0.0447	1.1000e-004	0.0448	0.0119	1.0000e-004	0.0120		33.4470	33.4470	3.6000e-004	5.7000e-004	33.6251

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
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Construction Phase 3 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day								lb/day							
Archit. Coating	92.9521					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	93.0700	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1600e-003	3.5800e-003	0.0850	3.0000e-004	0.0412	1.1000e-004	0.0413	0.0110	1.0000e-004	0.0111		33.4470	33.4470	3.6000e-004	5.7000e-004	33.6251
Total	7.1600e-003	3.5800e-003	0.0850	3.0000e-004	0.0412	1.1000e-004	0.0413	0.0110	1.0000e-004	0.0111		33.4470	33.4470	3.6000e-004	5.7000e-004	33.6251

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 3
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	50.14	1000sqft	0.30	50,136.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2040

Utility Company

CO2 Intensity (lb/MWahr)	0	CH4 Intensity (lb/MWahr)	0	N2O Intensity (lb/MWahr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Based on information provided by the College District.
 Construction Phase -
 Trips and VMT - See Construction Phase 3 assumptions worksheet in the AQ/GHG appendix of the DEIR.
 Construction Off-road Equipment Mitigation - Baesd on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	1.15	0.30
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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					
2038	93.0771	3.4870	7.7919	0.0184	5.4270	0.1072	5.5156	2.5996	0.1071	2.6882	0.0000	1,757.1698	1,757.1698	0.0648	0.0215	1,761.8796
Maximum	93.0771	3.4870	7.7919	0.0184	5.4270	0.1072	5.5156	2.5996	0.1071	2.6882	0.0000	1,757.1698	1,757.1698	0.0648	0.0215	1,761.8796

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					
2038	93.0771	3.4870	7.7919	0.0184	2.3773	0.1072	2.4659	1.1270	0.1071	1.2156	0.0000	1,757.1698	1,757.1698	0.0648	0.0215	1,761.8796
Maximum	93.0771	3.4870	7.7919	0.0184	2.3773	0.1072	2.4659	1.1270	0.1071	1.2156	0.0000	1,757.1698	1,757.1698	0.0648	0.0215	1,761.8796

	ROG	NOx	CO	SO2	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	56.20	0.00	55.29	56.65	0.00	54.78	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	2/13/2038	2/15/2038	5	1	
2	Grading	Grading	2/16/2038	2/17/2038	5	2	

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3	Building Construction	Building Construction	2/18/2038	7/7/2038	5	100
4	Paving	Paving	7/8/2038	7/14/2038	5	5
5	Architectural Coating	Architectural Coating	7/15/2038	7/21/2038	5	5

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,204; Non-Residential Outdoor: 25,068; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

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
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	21.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4284	1.5740	3.8815	0.0119		0.0343	0.0343		0.0343	0.0343		1,128.1977	1,128.1977	0.0376		1,129.1364
Total	0.4284	1.5740	3.8815	0.0119	0.5303	0.0343	0.5646	0.0573	0.0343	0.0916		1,128.1977	1,128.1977	0.0376		1,129.1364

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	0.0000
Vendor	1.9000e-003	0.0711	0.0278	2.9000e-004	0.0128	4.9000e-004	0.0133	3.6900e-003	4.7000e-004	4.1500e-003		31.3430	31.3430	7.2000e-004	4.6000e-003	32.7314
Worker	8.8300e-003	4.6800e-003	0.0880	3.4000e-004	0.0559	1.4000e-004	0.0560	0.0148	1.2000e-004	0.0150		37.9121	37.9121	4.6000e-004	7.3000e-004	38.1413
Total	0.0107	0.0758	0.1158	6.3000e-004	0.0687	6.3000e-004	0.0693	0.0185	5.9000e-004	0.0191		69.2551	69.2551	1.1800e-003	5.3300e-003	70.8727

**Construction Phase 3 - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.4284	1.5740	3.8815	0.0119		0.0343	0.0343		0.0343	0.0343	0.0000	1,128.1977	1,128.1977	0.0376		1,129.1364
Total	0.4284	1.5740	3.8815	0.0119	0.2267	0.0343	0.2610	0.0245	0.0343	0.0588	0.0000	1,128.1977	1,128.1977	0.0376		1,129.1364

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	0.0000
Vendor	1.9000e-003	0.0711	0.0278	2.9000e-004	0.0120	4.9000e-004	0.0125	3.4900e-003	4.7000e-004	3.9500e-003		31.3430	31.3430	7.2000e-004	4.6000e-003	32.7314
Worker	8.8300e-003	4.6800e-003	0.0880	3.4000e-004	0.0515	1.4000e-004	0.0517	0.0138	1.2000e-004	0.0139		37.9121	37.9121	4.6000e-004	7.3000e-004	38.1413
Total	0.0107	0.0758	0.1158	6.3000e-004	0.0635	6.3000e-004	0.0641	0.0172	5.9000e-004	0.0178		69.2551	69.2551	1.1800e-003	5.3300e-003	70.8727

3.3 Grading - 2038

Unmitigated Construction On-Site

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.7155	2.8730	4.8534	0.0173		0.0874	0.0874		0.0874	0.0874		1,633.8245	1,633.8245	0.0627		1,635.3908
Total	0.7155	2.8730	4.8534	0.0173	5.3119	0.0874	5.3994	2.5686	0.0874	2.6560		1,633.8245	1,633.8245	0.0627		1,635.3908

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	0.0000
Vendor	3.7900e-003	0.1423	0.0557	5.9000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.3000e-004	8.3100e-003		62.6861	62.6861	1.4400e-003	9.2000e-003	65.4628
Worker	0.0141	7.4900e-003	0.1408	5.5000e-004	0.0894	2.2000e-004	0.0896	0.0237	2.0000e-004	0.0239		60.6593	60.6593	7.3000e-004	1.1700e-003	61.0260
Total	0.0179	0.1498	0.1964	1.1400e-003	0.1150	1.1900e-003	0.1162	0.0311	1.1300e-003	0.0322		123.3454	123.3454	2.1700e-003	0.0104	126.4888

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					

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					2.2709	0.0000	2.2709	1.0981	0.0000	1.0981			0.0000		0.0000
Off-Road	0.7155	2.8730	4.8534	0.0173		0.0874	0.0874		0.0874	0.0874	0.0000	1,633.8245	1,633.8245	0.0627	1,635.3908
Total	0.7155	2.8730	4.8534	0.0173	2.2709	0.0874	2.3583	1.0981	0.0874	1.1855	0.0000	1,633.8245	1,633.8245	0.0627	1,635.3908

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	0.0000
Vendor	3.7900e-003	0.1423	0.0557	5.9000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.3000e-004	7.9100e-003		62.6861	62.6861	1.4400e-003	9.2000e-003	65.4628
Worker	0.0141	7.4900e-003	0.1408	5.5000e-004	0.0824	2.2000e-004	0.0826	0.0220	2.0000e-004	0.0222		60.6593	60.6593	7.3000e-004	1.1700e-003	61.0260
Total	0.0179	0.1498	0.1964	1.1400e-003	0.1064	1.1900e-003	0.1076	0.0290	1.1300e-003	0.0301		123.3454	123.3454	2.1700e-003	0.0104	126.4888

3.4 Building Construction - 2038

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	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423		1,322.7958	1,322.7958	0.0511		1,324.0721
Total	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423		1,322.7958	1,322.7958	0.0511		1,324.0721

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	7.5800e-003	0.2846	0.1113	1.1700e-003	0.0513	1.9500e-003	0.0532	0.0148	1.8600e-003	0.0166		125.3721	125.3721	2.8900e-003	0.0184	130.9257
Worker	0.0371	0.0197	0.3695	1.4300e-003	0.2347	5.7000e-004	0.2353	0.0623	5.2000e-004	0.0628		159.2307	159.2307	1.9100e-003	3.0700e-003	160.1933
Total	0.0447	0.3042	0.4808	2.6000e-003	0.2860	2.5200e-003	0.2885	0.0770	2.3800e-003	0.0794		284.6028	284.6028	4.8000e-003	0.0215	291.1189

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	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423	0.0000	1,322.7958	1,322.7958	0.0511		1,324.0721
Total	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423	0.0000	1,322.7958	1,322.7958	0.0511		1,324.0721

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	7.5800e-003	0.2846	0.1113	1.1700e-003	0.0480	1.9500e-003	0.0499	0.0140	1.8600e-003	0.0158	125.3721	125.3721	2.8900e-003	0.0184	130.9257	
Worker	0.0371	0.0197	0.3695	1.4300e-003	0.2164	5.7000e-004	0.2169	0.0577	5.2000e-004	0.0583	159.2307	159.2307	1.9100e-003	3.0700e-003	160.1933	
Total	0.0447	0.3042	0.4808	2.6000e-003	0.2643	2.5200e-003	0.2668	0.0717	2.3800e-003	0.0741	284.6028	284.6028	4.8000e-003	0.0215	291.1189	

3.5 Paving - 2038

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	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067		1,211.7777	1,211.7777	0.0578		1,213.2227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067		1,211.7777	1,211.7777	0.0578		1,213.2227

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	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

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0318	0.0169	0.3167	1.2300e-003	0.2012	4.9000e-004	0.2017	0.0534	4.5000e-004	0.0538		136.4834	136.4834	1.6400e-003	2.6300e-003	137.3085
Total	0.0318	0.0169	0.3167	1.2300e-003	0.2012	4.9000e-004	0.2017	0.0534	4.5000e-004	0.0538		136.4834	136.4834	1.6400e-003	2.6300e-003	137.3085

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	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067	0.0000	1,211.7777	1,211.7777	0.0578			1,213.2227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067	0.0000	1,211.7777	1,211.7777	0.0578			1,213.2227

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0318	0.0169	0.3167	1.2300e-003	0.1855	4.9000e-004	0.1859	0.0495	4.5000e-004	0.0499		136.4834	136.4834	1.6400e-003	2.6300e-003	137.3085
Total	0.0318	0.0169	0.3167	1.2300e-003	0.1855	4.9000e-004	0.1859	0.0495	4.5000e-004	0.0499		136.4834	136.4834	1.6400e-003	2.6300e-003	137.3085

Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2038

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	92.9521					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104			281.7081
Total	93.0700	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104			281.7081

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0700e-003	3.7400e-003	0.0704	2.7000e-004	0.0447	1.1000e-004	0.0448	0.0119	1.0000e-004	0.0120		30.3297	30.3297	3.6000e-004	5.8000e-004	30.5130
Total	7.0700e-003	3.7400e-003	0.0704	2.7000e-004	0.0447	1.1000e-004	0.0448	0.0119	1.0000e-004	0.0120		30.3297	30.3297	3.6000e-004	5.8000e-004	30.5130

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
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Construction Phase 3 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day								lb/day						
Archit. Coating	92.9521					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104	281.7081
Total	93.0700	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104	281.7081

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0700e-003	3.7400e-003	0.0704	2.7000e-004	0.0412	1.1000e-004	0.0413	0.0110	1.0000e-004	0.0111		30.3297	30.3297	3.6000e-004	5.8000e-004	30.5130
Total	7.0700e-003	3.7400e-003	0.0704	2.7000e-004	0.0412	1.1000e-004	0.0413	0.0110	1.0000e-004	0.0111		30.3297	30.3297	3.6000e-004	5.8000e-004	30.5130

Construction Phase 3 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 3
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	50.14	1000sqft	0.30	50,136.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2040

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Based on information provided by the College District.
 Construction Phase -
 Trips and VMT - See Construction Phase 3 assumptions worksheet in the AQ/GHG appendix of the DEIR.
 Construction Off-road Equipment Mitigation - Baesd on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	1.15	0.30
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

**Construction Phase 3 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	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					
2038	0.2662	0.1748	0.4134	9.0000e-004	0.0204	2.6400e-003	0.0230	6.5800e-003	2.6300e-003	9.2200e-003	0.0000	78.9546	78.9546	2.7700e-003	1.0000e-003	79.3207
Maximum	0.2662	0.1748	0.4134	9.0000e-004	0.0204	2.6400e-003	0.0230	6.5800e-003	2.6300e-003	9.2200e-003	0.0000	78.9546	78.9546	2.7700e-003	1.0000e-003	79.3207

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					
2038	0.2662	0.1748	0.4134	9.0000e-004	0.0161	2.6400e-003	0.0187	4.8200e-003	2.6300e-003	7.4500e-003	0.0000	78.9545	78.9545	2.7700e-003	1.0000e-003	79.3206
Maximum	0.2662	0.1748	0.4134	9.0000e-004	0.0161	2.6400e-003	0.0187	4.8200e-003	2.6300e-003	7.4500e-003	0.0000	78.9545	78.9545	2.7700e-003	1.0000e-003	79.3206

	ROG	NOx	CO	SO2	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	21.17	0.00	18.74	26.75	0.00	19.20	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2038	4-30-2038	0.1032	0.1032
2	5-1-2038	7-31-2038	0.3376	0.3376
		Highest	0.3376	0.3376

3.0 Construction Detail

Construction Phase

Construction Phase 3 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/13/2038	2/15/2038	5	1	
2	Grading	Grading	2/16/2038	2/17/2038	5	2	
3	Building Construction	Building Construction	2/18/2038	7/7/2038	5	100	
4	Paving	Paving	7/8/2038	7/14/2038	5	5	
5	Architectural Coating	Architectural Coating	7/15/2038	7/21/2038	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,204; Non-Residential Outdoor: 25,068; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

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
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Construction Phase 3 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	5	21.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	7.9000e-004	1.9400e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122
Total	2.1000e-004	7.9000e-004	1.9400e-003	1.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122

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

Construction Phase 3 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0142	0.0142	0.0000	0.0000	0.0148
Worker	0.0000	0.0000	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0175	0.0175	0.0000	0.0000	0.0176
Total	0.0000	4.0000e-005	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0317	0.0317	0.0000	0.0000	0.0325

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	7.9000e-004	1.9400e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122
Total	2.1000e-004	7.9000e-004	1.9400e-003	1.0000e-005	1.1000e-004	2.0000e-005	1.3000e-004	1.0000e-005	2.0000e-005	3.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122

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	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0142	0.0142	0.0000	0.0000	0.0148
Worker	0.0000	0.0000	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0175	0.0175	0.0000	0.0000	0.0176
Total	0.0000	4.0000e-005	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0317	0.0317	0.0000	0.0000	0.0325

Construction Phase 3 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2038

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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	2.8700e-003	4.8500e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.4822	1.4822	6.0000e-005	0.0000	1.4836
Total	7.2000e-004	2.8700e-003	4.8500e-003	2.0000e-005	5.3100e-003	9.0000e-005	5.4000e-003	2.5700e-003	9.0000e-005	2.6600e-003	0.0000	1.4822	1.4822	6.0000e-005	0.0000	1.4836

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	1.4000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0568	0.0568	0.0000	1.0000e-005	0.0593
Worker	1.0000e-005	1.0000e-005	1.5000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0561	0.0561	0.0000	0.0000	0.0565
Total	1.0000e-005	1.5000e-004	2.0000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1129	0.1129	0.0000	1.0000e-005	0.1158

Mitigated Construction On-Site

Construction Phase 3 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2700e-003	0.0000	2.2700e-003	1.1000e-003	0.0000	1.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	2.8700e-003	4.8500e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.4822	1.4822	6.0000e-005	0.0000	1.4836
Total	7.2000e-004	2.8700e-003	4.8500e-003	2.0000e-005	2.2700e-003	9.0000e-005	2.3600e-003	1.1000e-003	9.0000e-005	1.1900e-003	0.0000	1.4822	1.4822	6.0000e-005	0.0000	1.4836

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	1.4000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0568	0.0568	0.0000	1.0000e-005	0.0593
Worker	1.0000e-005	1.0000e-005	1.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0561	0.0561	0.0000	0.0000	0.0565
Total	1.0000e-005	1.5000e-004	2.0000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1129	0.1129	0.0000	1.0000e-005	0.1158

3.4 Building Construction - 2038

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					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-Road	0.0288	0.1452	0.3573	7.0000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	60.0010	60.0010	2.3200e-003	0.0000	60.0589
Total	0.0288	0.1452	0.3573	7.0000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	60.0010	60.0010	2.3200e-003	0.0000	60.0589

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	4.0000e-004	0.0142	5.4800e-003	6.0000e-005	2.5200e-003	1.0000e-004	2.6200e-003	7.3000e-004	9.0000e-005	8.2000e-004	0.0000	5.6782	5.6782	1.3000e-004	8.3000e-004	5.9298
Worker	1.7000e-003	1.0300e-003	0.0194	7.0000e-005	0.0115	3.0000e-005	0.0115	3.0600e-003	3.0000e-005	3.0800e-003	0.0000	7.3645	7.3645	9.0000e-005	1.4000e-004	7.4095
Total	2.1000e-003	0.0152	0.0249	1.3000e-004	0.0140	1.3000e-004	0.0142	3.7900e-003	1.2000e-004	3.9000e-003	0.0000	13.0427	13.0427	2.2000e-004	9.7000e-004	13.3392

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	0.0288	0.1452	0.3573	7.0000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	60.0009	60.0009	2.3200e-003	0.0000	60.0588
Total	0.0288	0.1452	0.3573	7.0000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	60.0009	60.0009	2.3200e-003	0.0000	60.0588

Construction Phase 3 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.0000e-004	0.0142	5.4800e-003	6.0000e-005	2.3600e-003	1.0000e-004	2.4600e-003	6.9000e-004	9.0000e-005	7.8000e-004	0.0000	5.6782	5.6782	1.3000e-004	8.3000e-004	5.9298
Worker	1.7000e-003	1.0300e-003	0.0194	7.0000e-005	0.0106	3.0000e-005	0.0106	2.8400e-003	3.0000e-005	2.8600e-003	0.0000	7.3645	7.3645	9.0000e-005	1.4000e-004	7.4095
Total	2.1000e-003	0.0152	0.0249	1.3000e-004	0.0130	1.3000e-004	0.0131	3.5300e-003	1.2000e-004	3.6400e-003	0.0000	13.0427	13.0427	2.2000e-004	9.7000e-004	13.3392

3.5 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6100e-003	8.6800e-003	0.0187	3.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	2.7483	2.7483	1.3000e-004	0.0000	2.7515
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6100e-003	8.6800e-003	0.0187	3.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	2.7483	2.7483	1.3000e-004	0.0000	2.7515

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 3 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	7.0000e-005	4.0000e-005	8.3000e-004	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3156	0.3156	0.0000	1.0000e-005	0.3176
Total	7.0000e-005	4.0000e-005	8.3000e-004	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3156	0.3156	0.0000	1.0000e-005	0.3176

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6100e-003	8.6800e-003	0.0187	3.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	2.7483	2.7483	1.3000e-004	0.0000	2.7515
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6100e-003	8.6800e-003	0.0187	3.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	2.7483	2.7483	1.3000e-004	0.0000	2.7515

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

Construction Phase 3 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	7.0000e-005	4.0000e-005	8.3000e-004	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3156	0.3156	0.0000	1.0000e-005	0.3176
Total	7.0000e-005	4.0000e-005	8.3000e-004	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3156	0.3156	0.0000	1.0000e-005	0.3176

3.6 Architectural Coating - 2038

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	0.2324					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8900e-003	4.4900e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389
Total	0.2327	1.8900e-003	4.4900e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0701	0.0701	0.0000	0.0000	0.0706
Total	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0701	0.0701	0.0000	0.0000	0.0706

Construction Phase 3 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.2324					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8900e-003	4.4900e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389
Total	0.2327	1.8900e-003	4.4900e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0701	0.0701	0.0000	0.0000	0.0706
Total	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0701	0.0701	0.0000	0.0000	0.0706

Construction Phase 3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	2.90000E-004	1.89000E-003	4.49000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.38310E-001	6.38310E-001	2.00000E-005	0.00000E+000	6.38900E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Cranes	6.00000E-003	1.36800E-002	3.37600E-002	1.80000E-004	4.70000E-004	4.70000E-004	0.00000E+000	1.52281E+001	1.52281E+001	4.80000E-004	0.00000E+000	1.52402E+001
Forklifts	6.47000E-003	3.52000E-002	8.91700E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001

Construction Phase 3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Graders	3.30000E-004	7.60000E-004	1.92000E-003	1.00000E-005	3.00000E-005	3.00000E-005	0.00000E+000	8.71430E-001	8.71430E-001	3.00000E-005	0.00000E+000	8.72080E-001
Pavers	5.10000E-004	1.87000E-003	6.99000E-003	1.00000E-005	9.00000E-005	9.00000E-005	0.00000E+000	1.08602E+000	1.08602E+000	4.00000E-005	0.00000E+000	1.08707E+000
Rollers	3.00000E-004	1.94000E-003	4.26000E-003	1.00000E-005	4.00000E-005	4.00000E-005	0.00000E+000	6.04670E-001	6.04670E-001	2.00000E-005	0.00000E+000	6.05280E-001
Rubber Tired Dozers	3.70000E-004	1.57000E-003	1.65000E-003	1.00000E-005	6.00000E-005	6.00000E-005	0.00000E+000	6.73780E-001	6.73780E-001	3.00000E-005	0.00000E+000	6.74520E-001
Tractors/Loaders/Backhoes	1.69100E-002	9.97100E-002	2.42750E-001	3.90000E-004	1.31000E-003	1.31000E-003	0.00000E+000	3.37966E+001	3.37966E+001	1.37000E-003	0.00000E+000	3.38308E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mT/yr					
Air Compressors	2.90000E-004	1.89000E-003	4.49000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.38310E-001	6.38310E-001	2.00000E-005	0.00000E+000	6.38900E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Cranes	6.00000E-003	1.36800E-002	3.37600E-002	1.80000E-004	4.70000E-004	4.70000E-004	0.00000E+000	1.52281E+001	1.52281E+001	4.80000E-004	0.00000E+000	1.52402E+001
Forklifts	6.47000E-003	3.52000E-002	8.91700E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Graders	3.30000E-004	7.60000E-004	1.92000E-003	1.00000E-005	3.00000E-005	3.00000E-005	0.00000E+000	8.71430E-001	8.71430E-001	3.00000E-005	0.00000E+000	8.72080E-001
Pavers	5.10000E-004	1.87000E-003	6.99000E-003	1.00000E-005	9.00000E-005	9.00000E-005	0.00000E+000	1.08602E+000	1.08602E+000	4.00000E-005	0.00000E+000	1.08707E+000
Rollers	3.00000E-004	1.94000E-003	4.26000E-003	1.00000E-005	4.00000E-005	4.00000E-005	0.00000E+000	6.04670E-001	6.04670E-001	2.00000E-005	0.00000E+000	6.05280E-001
Rubber Tired Dozers	3.70000E-004	1.57000E-003	1.65000E-003	1.00000E-005	6.00000E-005	6.00000E-005	0.00000E+000	6.73770E-001	6.73770E-001	3.00000E-005	0.00000E+000	6.74520E-001
Tractors/Loaders/Backhoes	1.69100E-002	9.97100E-002	2.42750E-001	3.90000E-004	1.31000E-003	1.31000E-003	0.00000E+000	3.37966E+001	3.37966E+001	1.37000E-003	0.00000E+000	3.38307E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Percent Reduction											
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31336E-006	1.31336E-006	0.00000E+000	0.00000E+000	1.31232E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.64760E-006	1.64760E-006	0.00000E+000	0.00000E+000	8.22931E-007
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.48416E-005	1.48416E-005	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18355E-006	1.18355E-006	0.00000E+000	0.00000E+000	1.18236E-006

Construction Phase 3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.09	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Grading	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.17	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.59	0.67
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Output: Phase 3 Construction – Mitigated

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Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 3 - Mitigated
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	50.14	1000sqft	0.30	50,136.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2040

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Construction Phase -
- Trips and VMT - See Construction Phase 3 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Baesd on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	1.15	0.30
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

2.0 Emissions Summary

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2038	18.7155	3.4862	7.8578	0.0184	5.4270	0.1072	5.5156	2.5996	0.1071	2.6882	0.0000	1,763.2413	1,763.2413	0.0648	0.0213	1,767.9324
Maximum	18.7155	3.4862	7.8578	0.0184	5.4270	0.1072	5.5156	2.5996	0.1071	2.6882	0.0000	1,763.2413	1,763.2413	0.0648	0.0213	1,767.9324

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					
2038	18.7155	3.4862	7.8578	0.0184	2.3773	0.1072	2.4659	1.1270	0.1071	1.2156	0.0000	1,763.2413	1,763.2413	0.0648	0.0213	1,767.9324
Maximum	18.7155	3.4862	7.8578	0.0184	2.3773	0.1072	2.4659	1.1270	0.1071	1.2156	0.0000	1,763.2413	1,763.2413	0.0648	0.0213	1,767.9324

	ROG	NOx	CO	SO2	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	56.20	0.00	55.29	56.65	0.00	54.78	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2038	2/1/2038	5	1	
2	Grading	Grading	2/2/2038	2/3/2038	5	2	
3	Building Construction	Building Construction	2/4/2038	6/23/2038	5	100	
4	Paving	Paving	6/24/2038	6/30/2038	5	5	
5	Architectural Coating	Architectural Coating	7/1/2038	7/7/2038	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,204; Non-Residential Outdoor: 25,068; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	21.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4284	1.5740	3.8815	0.0119		0.0343	0.0343		0.0343	0.0343		1,128.1977	1,128.1977	0.0376		1,129.1364
Total	0.4284	1.5740	3.8815	0.0119	0.5303	0.0343	0.5646	0.0573	0.0343	0.0916		1,128.1977	1,128.1977	0.0376		1,129.1364

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	0.0000

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	2.0700e-003	0.0673	0.0270	2.9000e-004	0.0128	4.9000e-004	0.0133	3.6900e-003	4.6000e-004	4.1500e-003		31.2614	31.2614	7.3000e-004	4.5800e-003	32.6457
Worker	8.9500e-003	4.4700e-003	0.1063	3.8000e-004	0.0559	1.4000e-004	0.0560	0.0148	1.2000e-004	0.0150		41.8087	41.8087	4.4000e-004	7.1000e-004	42.0314
Total	0.0110	0.0718	0.1332	6.7000e-004	0.0687	6.3000e-004	0.0693	0.0185	5.8000e-004	0.0191		73.0702	73.0702	1.1700e-003	5.2900e-003	74.6771

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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.4284	1.5740	3.8815	0.0119		0.0343	0.0343		0.0343	0.0343	0.0000	1,128.1977	1,128.1977	0.0376		1,129.1364
Total	0.4284	1.5740	3.8815	0.0119	0.2267	0.0343	0.2610	0.0245	0.0343	0.0588	0.0000	1,128.1977	1,128.1977	0.0376		1,129.1364

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	0.0000
Vendor	2.0700e-003	0.0673	0.0270	2.9000e-004	0.0120	4.9000e-004	0.0125	3.4900e-003	4.6000e-004	3.9500e-003		31.2614	31.2614	7.3000e-004	4.5800e-003	32.6457
Worker	8.9500e-003	4.4700e-003	0.1063	3.8000e-004	0.0515	1.4000e-004	0.0517	0.0138	1.2000e-004	0.0139		41.8087	41.8087	4.4000e-004	7.1000e-004	42.0314
Total	0.0110	0.0718	0.1332	6.7000e-004	0.0635	6.3000e-004	0.0641	0.0172	5.8000e-004	0.0178		73.0702	73.0702	1.1700e-003	5.2900e-003	74.6771

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2038

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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.7155	2.8730	4.8534	0.0173		0.0874	0.0874		0.0874	0.0874		1,633.8245	1,633.8245	0.0627		1,635.3908
Total	0.7155	2.8730	4.8534	0.0173	5.3119	0.0874	5.3994	2.5686	0.0874	2.6560		1,633.8245	1,633.8245	0.0627		1,635.3908

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	0.0000
Vendor	4.1300e-003	0.1346	0.0540	5.8000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.3000e-004	8.3100e-003		62.5229	62.5229	1.4600e-003	9.1700e-003	65.2914
Worker	0.0143	7.1500e-003	0.1700	6.0000e-004	0.0894	2.2000e-004	0.0896	0.0237	2.0000e-004	0.0239		66.8940	66.8940	7.1000e-004	1.1400e-003	67.2502
Total	0.0185	0.1417	0.2240	1.1800e-003	0.1150	1.1900e-003	0.1162	0.0311	1.1300e-003	0.0322		129.4168	129.4168	2.1700e-003	0.0103	132.5417

Mitigated Construction On-Site

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.2709	0.0000	2.2709	1.0981	0.0000	1.0981			0.0000			0.0000
Off-Road	0.7155	2.8730	4.8534	0.0173		0.0874	0.0874		0.0874	0.0874	0.0000	1,633.8245	1,633.8245	0.0627		1,635.3908
Total	0.7155	2.8730	4.8534	0.0173	2.2709	0.0874	2.3583	1.0981	0.0874	1.1855	0.0000	1,633.8245	1,633.8245	0.0627		1,635.3908

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	0.0000
Vendor	4.1300e-003	0.1346	0.0540	5.8000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.3000e-004	7.9000e-003		62.5229	62.5229	1.4600e-003	9.1700e-003	65.2914
Worker	0.0143	7.1500e-003	0.1700	6.0000e-004	0.0824	2.2000e-004	0.0826	0.0220	2.0000e-004	0.0222		66.8940	66.8940	7.1000e-004	1.1400e-003	67.2502
Total	0.0185	0.1417	0.2240	1.1800e-003	0.1064	1.1900e-003	0.1076	0.0290	1.1300e-003	0.0301		129.4168	129.4168	2.1700e-003	0.0103	132.5417

3.4 Building Construction - 2038

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					

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-Road	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423		1,322.7958	1,322.7958	0.0511		1,324.0721
Total	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423		1,322.7958	1,322.7958	0.0511		1,324.0721

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	0.0000
Vendor	8.2600e-003	0.2692	0.1079	1.1700e-003	0.0513	1.9400e-003	0.0532	0.0148	1.8600e-003	0.0166		125.0458	125.0458	2.9200e-003	0.0183	130.5828
Worker	0.0376	0.0188	0.4463	1.5800e-003	0.2347	5.7000e-004	0.2353	0.0623	5.2000e-004	0.0628		175.5966	175.5966	1.8700e-003	2.9800e-003	176.5319
Total	0.0458	0.2880	0.5542	2.7500e-003	0.2860	2.5100e-003	0.2885	0.0770	2.3800e-003	0.0794		300.6424	300.6424	4.7900e-003	0.0213	307.1147

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	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423	0.0000	1,322.7958	1,322.7958	0.0511		1,324.0721
Total	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423	0.0000	1,322.7958	1,322.7958	0.0511		1,324.0721

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	8.2600e-003	0.2692	0.1079	1.1700e-003	0.0480	1.9400e-003	0.0499	0.0140	1.8600e-003	0.0158		125.0458	125.0458	2.9200e-003	0.0183	130.5828
Worker	0.0376	0.0188	0.4463	1.5800e-003	0.2164	5.7000e-004	0.2169	0.0577	5.2000e-004	0.0583		175.5966	175.5966	1.8700e-003	2.9800e-003	176.5319
Total	0.0458	0.2880	0.5542	2.7500e-003	0.2643	2.5100e-003	0.2668	0.0717	2.3800e-003	0.0741		300.6424	300.6424	4.7900e-003	0.0213	307.1147

3.5 Paving - 2038

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	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067		1,211.7777	1,211.7777	0.0578		1,213.2227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067		1,211.7777	1,211.7777	0.0578		1,213.2227

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0322	0.0161	0.3826	1.3500e-003	0.2012	4.9000e-004	0.2017	0.0534	4.5000e-004	0.0538	150.5114	150.5114	1.6000e-003	2.5600e-003	151.3130	
Total	0.0322	0.0161	0.3826	1.3500e-003	0.2012	4.9000e-004	0.2017	0.0534	4.5000e-004	0.0538	150.5114	150.5114	1.6000e-003	2.5600e-003	151.3130	

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	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067	0.0000	1,211.7777	1,211.7777	0.0578		1,213.2227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067	0.0000	1,211.7777	1,211.7777	0.0578		1,213.2227

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	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

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0322	0.0161	0.3826	1.3500e-003	0.1855	4.9000e-004	0.1859	0.0495	4.5000e-004	0.0499		150.5114	150.5114	1.6000e-003	2.5600e-003	151.3130
Total	0.0322	0.0161	0.3826	1.3500e-003	0.1855	4.9000e-004	0.1859	0.0495	4.5000e-004	0.0499		150.5114	150.5114	1.6000e-003	2.5600e-003	151.3130

3.6 Architectural Coating - 2038

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	18.5904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	18.7083	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1600e-003	3.5800e-003	0.0850	3.0000e-004	0.0447	1.1000e-004	0.0448	0.0119	1.0000e-004	0.0120		33.4470	33.4470	3.6000e-004	5.7000e-004	33.6251
Total	7.1600e-003	3.5800e-003	0.0850	3.0000e-004	0.0447	1.1000e-004	0.0448	0.0119	1.0000e-004	0.0120		33.4470	33.4470	3.6000e-004	5.7000e-004	33.6251

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	18.5904					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104			281.7081
Total	18.7083	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104			281.7081

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1600e-003	3.5800e-003	0.0850	3.0000e-004	0.0412	1.1000e-004	0.0413	0.0110	1.0000e-004	0.0111		33.4470	33.4470	3.6000e-004	5.7000e-004	33.6251
Total	7.1600e-003	3.5800e-003	0.0850	3.0000e-004	0.0412	1.1000e-004	0.0413	0.0110	1.0000e-004	0.0111		33.4470	33.4470	3.6000e-004	5.7000e-004	33.6251

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 3 - Mitigated
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	50.14	1000sqft	0.30	50,136.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2040

Utility Company

CO2 Intensity (lb/MWahr)	0	CH4 Intensity (lb/MWahr)	0	N2O Intensity (lb/MWahr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Construction Phase -
- Trips and VMT - See Construction Phase 3 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Baesd on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	1.15	0.30
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

2.0 Emissions Summary

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2038	18.7154	3.4870	7.7919	0.0184	5.4270	0.1072	5.5156	2.5996	0.1071	2.6882	0.0000	1,757.1698	1,757.1698	0.0648	0.0215	1,761.8796
Maximum	18.7154	3.4870	7.7919	0.0184	5.4270	0.1072	5.5156	2.5996	0.1071	2.6882	0.0000	1,757.1698	1,757.1698	0.0648	0.0215	1,761.8796

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					
2038	18.7154	3.4870	7.7919	0.0184	2.3773	0.1072	2.4659	1.1270	0.1071	1.2156	0.0000	1,757.1698	1,757.1698	0.0648	0.0215	1,761.8796
Maximum	18.7154	3.4870	7.7919	0.0184	2.3773	0.1072	2.4659	1.1270	0.1071	1.2156	0.0000	1,757.1698	1,757.1698	0.0648	0.0215	1,761.8796

	ROG	NOx	CO	SO2	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	56.20	0.00	55.29	56.65	0.00	54.78	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/1/2038	2/1/2038	5	1	
2	Grading	Grading	2/2/2038	2/3/2038	5	2	
3	Building Construction	Building Construction	2/4/2038	6/23/2038	5	100	
4	Paving	Paving	6/24/2038	6/30/2038	5	5	
5	Architectural Coating	Architectural Coating	7/1/2038	7/7/2038	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,204; Non-Residential Outdoor: 25,068; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	21.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4284	1.5740	3.8815	0.0119		0.0343	0.0343		0.0343	0.0343		1,128.1977	1,128.1977	0.0376		1,129.1364
Total	0.4284	1.5740	3.8815	0.0119	0.5303	0.0343	0.5646	0.0573	0.0343	0.0916		1,128.1977	1,128.1977	0.0376		1,129.1364

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	0.0000

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	1.9000e-003	0.0711	0.0278	2.9000e-004	0.0128	4.9000e-004	0.0133	3.6900e-003	4.7000e-004	4.1500e-003		31.3430	31.3430	7.2000e-004	4.6000e-003	32.7314
Worker	8.8300e-003	4.6800e-003	0.0880	3.4000e-004	0.0559	1.4000e-004	0.0560	0.0148	1.2000e-004	0.0150		37.9121	37.9121	4.6000e-004	7.3000e-004	38.1413
Total	0.0107	0.0758	0.1158	6.3000e-004	0.0687	6.3000e-004	0.0693	0.0185	5.9000e-004	0.0191		69.2551	69.2551	1.1800e-003	5.3300e-003	70.8727

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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.4284	1.5740	3.8815	0.0119		0.0343	0.0343		0.0343	0.0343	0.0000	1,128.1977	1,128.1977	0.0376		1,129.1364
Total	0.4284	1.5740	3.8815	0.0119	0.2267	0.0343	0.2610	0.0245	0.0343	0.0588	0.0000	1,128.1977	1,128.1977	0.0376		1,129.1364

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	0.0000
Vendor	1.9000e-003	0.0711	0.0278	2.9000e-004	0.0120	4.9000e-004	0.0125	3.4900e-003	4.7000e-004	3.9500e-003		31.3430	31.3430	7.2000e-004	4.6000e-003	32.7314
Worker	8.8300e-003	4.6800e-003	0.0880	3.4000e-004	0.0515	1.4000e-004	0.0517	0.0138	1.2000e-004	0.0139		37.9121	37.9121	4.6000e-004	7.3000e-004	38.1413
Total	0.0107	0.0758	0.1158	6.3000e-004	0.0635	6.3000e-004	0.0641	0.0172	5.9000e-004	0.0178		69.2551	69.2551	1.1800e-003	5.3300e-003	70.8727

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2038

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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.7155	2.8730	4.8534	0.0173		0.0874	0.0874		0.0874	0.0874		1,633.8245	1,633.8245	0.0627		1,635.3908
Total	0.7155	2.8730	4.8534	0.0173	5.3119	0.0874	5.3994	2.5686	0.0874	2.6560		1,633.8245	1,633.8245	0.0627		1,635.3908

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	0.0000
Vendor	3.7900e-003	0.1423	0.0557	5.9000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.3000e-004	8.3100e-003		62.6861	62.6861	1.4400e-003	9.2000e-003	65.4628
Worker	0.0141	7.4900e-003	0.1408	5.5000e-004	0.0894	2.2000e-004	0.0896	0.0237	2.0000e-004	0.0239		60.6593	60.6593	7.3000e-004	1.1700e-003	61.0260
Total	0.0179	0.1498	0.1964	1.1400e-003	0.1150	1.1900e-003	0.1162	0.0311	1.1300e-003	0.0322		123.3454	123.3454	2.1700e-003	0.0104	126.4888

Mitigated Construction On-Site

**Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.2709	0.0000	2.2709	1.0981	0.0000	1.0981			0.0000			0.0000
Off-Road	0.7155	2.8730	4.8534	0.0173		0.0874	0.0874		0.0874	0.0874	0.0000	1,633.8245	1,633.8245	0.0627		1,635.3908
Total	0.7155	2.8730	4.8534	0.0173	2.2709	0.0874	2.3583	1.0981	0.0874	1.1855	0.0000	1,633.8245	1,633.8245	0.0627		1,635.3908

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	0.0000
Vendor	3.7900e-003	0.1423	0.0557	5.9000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.3000e-004	7.9100e-003		62.6861	62.6861	1.4400e-003	9.2000e-003	65.4628
Worker	0.0141	7.4900e-003	0.1408	5.5000e-004	0.0824	2.2000e-004	0.0826	0.0220	2.0000e-004	0.0222		60.6593	60.6593	7.3000e-004	1.1700e-003	61.0260
Total	0.0179	0.1498	0.1964	1.1400e-003	0.1064	1.1900e-003	0.1076	0.0290	1.1300e-003	0.0301		123.3454	123.3454	2.1700e-003	0.0104	126.4888

3.4 Building Construction - 2038

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					

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-Road	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423		1,322.7958	1,322.7958	0.0511		1,324.0721
Total	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423		1,322.7958	1,322.7958	0.0511		1,324.0721

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	0.0000
Vendor	7.5800e-003	0.2846	0.1113	1.1700e-003	0.0513	1.9500e-003	0.0532	0.0148	1.8600e-003	0.0166		125.3721	125.3721	2.8900e-003	0.0184	130.9257
Worker	0.0371	0.0197	0.3695	1.4300e-003	0.2347	5.7000e-004	0.2353	0.0623	5.2000e-004	0.0628		159.2307	159.2307	1.9100e-003	3.0700e-003	160.1933
Total	0.0447	0.3042	0.4808	2.6000e-003	0.2860	2.5200e-003	0.2885	0.0770	2.3800e-003	0.0794		284.6028	284.6028	4.8000e-003	0.0215	291.1189

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	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423	0.0000	1,322.7958	1,322.7958	0.0511		1,324.0721
Total	0.5761	2.9031	7.1465	0.0140		0.0423	0.0423		0.0423	0.0423	0.0000	1,322.7958	1,322.7958	0.0511		1,324.0721

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	7.5800e-003	0.2846	0.1113	1.1700e-003	0.0480	1.9500e-003	0.0499	0.0140	1.8600e-003	0.0158		125.3721	125.3721	2.8900e-003	0.0184	130.9257
Worker	0.0371	0.0197	0.3695	1.4300e-003	0.2164	5.7000e-004	0.2169	0.0577	5.2000e-004	0.0583		159.2307	159.2307	1.9100e-003	3.0700e-003	160.1933
Total	0.0447	0.3042	0.4808	2.6000e-003	0.2643	2.5200e-003	0.2668	0.0717	2.3800e-003	0.0741		284.6028	284.6028	4.8000e-003	0.0215	291.1189

3.5 Paving - 2038

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	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067		1,211.7777	1,211.7777	0.0578		1,213.2227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067		1,211.7777	1,211.7777	0.0578		1,213.2227

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0318	0.0169	0.3167	1.2300e-003	0.2012	4.9000e-004	0.2017	0.0534	4.5000e-004	0.0538	136.4834	136.4834	1.6400e-003	2.6300e-003	137.3085	
Total	0.0318	0.0169	0.3167	1.2300e-003	0.2012	4.9000e-004	0.2017	0.0534	4.5000e-004	0.0538	136.4834	136.4834	1.6400e-003	2.6300e-003	137.3085	

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	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067	0.0000	1,211.7777	1,211.7777	0.0578		1,213.2227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6458	3.4702	7.4752	0.0133		0.1067	0.1067		0.1067	0.1067	0.0000	1,211.7777	1,211.7777	0.0578		1,213.2227

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	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

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0318	0.0169	0.3167	1.2300e-003	0.1855	4.9000e-004	0.1859	0.0495	4.5000e-004	0.0499		136.4834	136.4834	1.6400e-003	2.6300e-003	137.3085
Total	0.0318	0.0169	0.3167	1.2300e-003	0.1855	4.9000e-004	0.1859	0.0495	4.5000e-004	0.0499		136.4834	136.4834	1.6400e-003	2.6300e-003	137.3085

3.6 Architectural Coating - 2038

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	18.5904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	18.7083	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0700e-003	3.7400e-003	0.0704	2.7000e-004	0.0447	1.1000e-004	0.0448	0.0119	1.0000e-004	0.0120		30.3297	30.3297	3.6000e-004	5.8000e-004	30.5130
Total	7.0700e-003	3.7400e-003	0.0704	2.7000e-004	0.0447	1.1000e-004	0.0448	0.0119	1.0000e-004	0.0120		30.3297	30.3297	3.6000e-004	5.8000e-004	30.5130

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	18.5904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	18.7083	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0700e-003	3.7400e-003	0.0704	2.7000e-004	0.0412	1.1000e-004	0.0413	0.0110	1.0000e-004	0.0111		30.3297	30.3297	3.6000e-004	5.8000e-004	30.5130
Total	7.0700e-003	3.7400e-003	0.0704	2.7000e-004	0.0412	1.1000e-004	0.0413	0.0110	1.0000e-004	0.0111		30.3297	30.3297	3.6000e-004	5.8000e-004	30.5130

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 3 - Mitigated
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	50.14	1000sqft	0.30	50,136.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2040

Utility Company

CO2 Intensity (lb/MWahr)	0	CH4 Intensity (lb/MWahr)	0	N2O Intensity (lb/MWahr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Construction Phase -
- Trips and VMT - See Construction Phase 3 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Baesd on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	1.15	0.30
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

2.0 Emissions Summary

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2038	0.0803	0.1748	0.4134	9.0000e-004	0.0204	2.6400e-003	0.0230	6.5800e-003	2.6300e-003	9.2200e-003	0.0000	78.9546	78.9546	2.7700e-003	1.0000e-003	79.3207
Maximum	0.0803	0.1748	0.4134	9.0000e-004	0.0204	2.6400e-003	0.0230	6.5800e-003	2.6300e-003	9.2200e-003	0.0000	78.9546	78.9546	2.7700e-003	1.0000e-003	79.3207

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					
2038	0.0803	0.1748	0.4134	9.0000e-004	0.0161	2.6400e-003	0.0187	4.8200e-003	2.6300e-003	7.4500e-003	0.0000	78.9545	78.9545	2.7700e-003	1.0000e-003	79.3206
Maximum	0.0803	0.1748	0.4134	9.0000e-004	0.0161	2.6400e-003	0.0187	4.8200e-003	2.6300e-003	7.4500e-003	0.0000	78.9545	78.9545	2.7700e-003	1.0000e-003	79.3206

	ROG	NOx	CO	SO2	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	21.17	0.00	18.74	26.75	0.00	19.20	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2038	4-30-2038	0.1208	0.1208
2	5-1-2038	7-31-2038	0.1326	0.1326
		Highest	0.1326	0.1326

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2/1/2038	2/1/2038	5	1	
2	Grading	Grading	2/2/2038	2/3/2038	5	2	
3	Building Construction	Building Construction	2/4/2038	6/23/2038	5	100	
4	Paving	Paving	6/24/2038	6/30/2038	5	5	
5	Architectural Coating	Architectural Coating	7/1/2038	7/7/2038	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 75,204; Non-Residential Outdoor: 25,068; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

Trips and VMT

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	21.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Site Preparation - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	7.9000e-004	1.9400e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122
Total	2.1000e-004	7.9000e-004	1.9400e-003	1.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122

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

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0142	0.0142	0.0000	0.0000	0.0148
Worker	0.0000	0.0000	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0175	0.0175	0.0000	0.0000	0.0176
Total	0.0000	4.0000e-005	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0317	0.0317	0.0000	0.0000	0.0325

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	7.9000e-004	1.9400e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122
Total	2.1000e-004	7.9000e-004	1.9400e-003	1.0000e-005	1.1000e-004	2.0000e-005	1.3000e-004	1.0000e-005	2.0000e-005	3.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122

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	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0142	0.0142	0.0000	0.0000	0.0148

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0000	0.0000	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0175	0.0175	0.0000	0.0000	0.0176
Total	0.0000	4.0000e-005	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0317	0.0317	0.0000	0.0000	0.0325

3.3 Grading - 2038

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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	2.8700e-003	4.8500e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.4822	1.4822	6.0000e-005	0.0000	1.4836
Total	7.2000e-004	2.8700e-003	4.8500e-003	2.0000e-005	5.3100e-003	9.0000e-005	5.4000e-003	2.5700e-003	9.0000e-005	2.6600e-003	0.0000	1.4822	1.4822	6.0000e-005	0.0000	1.4836

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	1.4000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0568	0.0568	0.0000	1.0000e-005	0.0593
Worker	1.0000e-005	1.0000e-005	1.5000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0561	0.0561	0.0000	0.0000	0.0565
Total	1.0000e-005	1.5000e-004	2.0000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1129	0.1129	0.0000	1.0000e-005	0.1158

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					2.2700e-003	0.0000	2.2700e-003	1.1000e-003	0.0000	1.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	2.8700e-003	4.8500e-003	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.4822	1.4822	6.0000e-005	0.0000	1.4836
Total	7.2000e-004	2.8700e-003	4.8500e-003	2.0000e-005	2.2700e-003	9.0000e-005	2.3600e-003	1.1000e-003	9.0000e-005	1.1900e-003	0.0000	1.4822	1.4822	6.0000e-005	0.0000	1.4836

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	1.4000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0568	0.0568	0.0000	1.0000e-005	0.0593
Worker	1.0000e-005	1.0000e-005	1.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0561	0.0561	0.0000	0.0000	0.0565
Total	1.0000e-005	1.5000e-004	2.0000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1129	0.1129	0.0000	1.0000e-005	0.1158

3.4 Building Construction - 2038

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
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Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Off-Road	0.0288	0.1452	0.3573	7.0000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	60.0010	60.0010	2.3200e-003	0.0000	60.0589
Total	0.0288	0.1452	0.3573	7.0000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	60.0010	60.0010	2.3200e-003	0.0000	60.0589

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	4.0000e-004	0.0142	5.4800e-003	6.0000e-005	2.5200e-003	1.0000e-004	2.6200e-003	7.3000e-004	9.0000e-005	8.2000e-004	0.0000	5.6782	5.6782	1.3000e-004	8.3000e-004	5.9298
Worker	1.7000e-003	1.0300e-003	0.0194	7.0000e-005	0.0115	3.0000e-005	0.0115	3.0600e-003	3.0000e-005	3.0800e-003	0.0000	7.3645	7.3645	9.0000e-005	1.4000e-004	7.4095
Total	2.1000e-003	0.0152	0.0249	1.3000e-004	0.0140	1.3000e-004	0.0142	3.7900e-003	1.2000e-004	3.9000e-003	0.0000	13.0427	13.0427	2.2000e-004	9.7000e-004	13.3392

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	0.0288	0.1452	0.3573	7.0000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	60.0009	60.0009	2.3200e-003	0.0000	60.0588
Total	0.0288	0.1452	0.3573	7.0000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	60.0009	60.0009	2.3200e-003	0.0000	60.0588

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.0000e-004	0.0142	5.4800e-003	6.0000e-005	2.3600e-003	1.0000e-004	2.4600e-003	6.9000e-004	9.0000e-005	7.8000e-004	0.0000	5.6782	5.6782	1.3000e-004	8.3000e-004	5.9298
Worker	1.7000e-003	1.0300e-003	0.0194	7.0000e-005	0.0106	3.0000e-005	0.0106	2.8400e-003	3.0000e-005	2.8600e-003	0.0000	7.3645	7.3645	9.0000e-005	1.4000e-004	7.4095
Total	2.1000e-003	0.0152	0.0249	1.3000e-004	0.0130	1.3000e-004	0.0131	3.5300e-003	1.2000e-004	3.6400e-003	0.0000	13.0427	13.0427	2.2000e-004	9.7000e-004	13.3392

3.5 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6100e-003	8.6800e-003	0.0187	3.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	2.7483	2.7483	1.3000e-004	0.0000	2.7515
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6100e-003	8.6800e-003	0.0187	3.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	2.7483	2.7483	1.3000e-004	0.0000	2.7515

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	7.0000e-005	4.0000e-005	8.3000e-004	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3156	0.3156	0.0000	1.0000e-005	0.3176
Total	7.0000e-005	4.0000e-005	8.3000e-004	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3156	0.3156	0.0000	1.0000e-005	0.3176

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6100e-003	8.6800e-003	0.0187	3.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	2.7483	2.7483	1.3000e-004	0.0000	2.7515
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6100e-003	8.6800e-003	0.0187	3.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	2.7483	2.7483	1.3000e-004	0.0000	2.7515

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

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	7.0000e-005	4.0000e-005	8.3000e-004	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3156	0.3156	0.0000	1.0000e-005	0.3176
Total	7.0000e-005	4.0000e-005	8.3000e-004	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3156	0.3156	0.0000	1.0000e-005	0.3176

3.6 Architectural Coating - 2038

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	0.0465					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8900e-003	4.4900e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389
Total	0.0468	1.8900e-003	4.4900e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0701	0.0701	0.0000	0.0000	0.0706
Total	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0701	0.0701	0.0000	0.0000	0.0706

Construction Phase 3 - Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0465					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8900e-003	4.4900e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389
Total	0.0468	1.8900e-003	4.4900e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0701	0.0701	0.0000	0.0000	0.0706
Total	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0701	0.0701	0.0000	0.0000	0.0706

Construction Phase 3 - Mitigated
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	2.90000E-004	1.89000E-003	4.49000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.38310E-001	6.38310E-001	2.00000E-005	0.00000E+000	6.38900E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Cranes	6.00000E-003	1.36800E-002	3.37600E-002	1.80000E-004	4.70000E-004	4.70000E-004	0.00000E+000	1.52281E+001	1.52281E+001	4.80000E-004	0.00000E+000	1.52402E+001

Construction Phase 3 - Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Forklifts	6.47000E-003	3.52000E-002	8.91700E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Graders	3.30000E-004	7.60000E-004	1.92000E-003	1.00000E-005	3.00000E-005	3.00000E-005	0.00000E+000	8.71430E-001	8.71430E-001	3.00000E-005	0.00000E+000	8.72080E-001
Pavers	5.10000E-004	1.87000E-003	6.99000E-003	1.00000E-005	9.00000E-005	9.00000E-005	0.00000E+000	1.08602E+000	1.08602E+000	4.00000E-005	0.00000E+000	1.08707E+000
Rollers	3.00000E-004	1.94000E-003	4.26000E-003	1.00000E-005	4.00000E-005	4.00000E-005	0.00000E+000	6.04670E-001	6.04670E-001	2.00000E-005	0.00000E+000	6.05280E-001
Rubber Tired Dozers	3.70000E-004	1.57000E-003	1.65000E-003	1.00000E-005	6.00000E-005	6.00000E-005	0.00000E+000	6.73780E-001	6.73780E-001	3.00000E-005	0.00000E+000	6.74520E-001
Tractors/Loaders/Bulldozers	1.69100E-002	9.97100E-002	2.42750E-001	3.90000E-004	1.31000E-003	1.31000E-003	0.00000E+000	3.37966E+001	3.37966E+001	1.37000E-003	0.00000E+000	3.38308E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Air Compressors	2.90000E-004	1.89000E-003	4.49000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.38310E-001	6.38310E-001	2.00000E-005	0.00000E+000	6.38900E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Cranes	6.00000E-003	1.36800E-002	3.37600E-002	1.80000E-004	4.70000E-004	4.70000E-004	0.00000E+000	1.52281E+001	1.52281E+001	4.80000E-004	0.00000E+000	1.52402E+001
Forklifts	6.47000E-003	3.52000E-002	8.91700E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Graders	3.30000E-004	7.60000E-004	1.92000E-003	1.00000E-005	3.00000E-005	3.00000E-005	0.00000E+000	8.71430E-001	8.71430E-001	3.00000E-005	0.00000E+000	8.72080E-001
Pavers	5.10000E-004	1.87000E-003	6.99000E-003	1.00000E-005	9.00000E-005	9.00000E-005	0.00000E+000	1.08602E+000	1.08602E+000	4.00000E-005	0.00000E+000	1.08707E+000
Rollers	3.00000E-004	1.94000E-003	4.26000E-003	1.00000E-005	4.00000E-005	4.00000E-005	0.00000E+000	6.04670E-001	6.04670E-001	2.00000E-005	0.00000E+000	6.05280E-001
Rubber Tired Dozers	3.70000E-004	1.57000E-003	1.65000E-003	1.00000E-005	6.00000E-005	6.00000E-005	0.00000E+000	6.73770E-001	6.73770E-001	3.00000E-005	0.00000E+000	6.74520E-001
Tractors/Loaders/Bulldozers	1.69100E-002	9.97100E-002	2.42750E-001	3.90000E-004	1.31000E-003	1.31000E-003	0.00000E+000	3.37966E+001	3.37966E+001	1.37000E-003	0.00000E+000	3.38307E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31336E-006	1.31336E-006	0.00000E+000	0.00000E+000	1.31232E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.64760E-006	1.64760E-006	0.00000E+000	0.00000E+000	8.22931E-007
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.48416E-005	1.48416E-005	0.00000E+000	0.00000E+000	0.00000E+000

Construction Phase 3 - Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Tractors/Loaders/Bac kboes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18355E-006	1.18355E-006	0.00000E+000	0.00000E+000	1.18236E-006
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Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.09	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Grading	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.17	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.59	0.67
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Output: Phase 4 Construction

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Construction Phase 4 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 4
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	108.75	1000sqft	0.73	108,754.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2045

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Off-road Equipment -
- Off-road Equipment -
- Demolition -
- Trips and VMT - See Construction Phase 4 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	2.50	0.73
tblTripsAndVMT	HaulingTripNumber	131.00	132.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2042	201.7575	4.5495	8.2886	0.0201	5.4270	0.0848	5.4907	2.5996	0.0848	2.6633	0.0000	2,004.4205	2,004.4205	0.0682	0.1062	2,037.7746
Maximum	201.7575	4.5495	8.2886	0.0201	5.4270	0.0848	5.4907	2.5996	0.0848	2.6633	0.0000	2,004.4205	2,004.4205	0.0682	0.1062	2,037.7746

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					
2042	201.7575	4.5495	8.2886	0.0201	2.3773	0.0848	2.4410	1.1270	0.0848	1.1907	0.0000	2,004.4205	2,004.4205	0.0682	0.1062	2,037.7746
Maximum	201.7575	4.5495	8.2886	0.0201	2.3773	0.0848	2.4410	1.1270	0.0848	1.1907	0.0000	2,004.4205	2,004.4205	0.0682	0.1062	2,037.7746

	ROG	NOx	CO	SO2	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	56.20	0.00	55.54	56.65	0.00	55.29	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	7/17/2042	7/23/2042	5	5	
2	Building Construction	Building Construction	2/20/2042	7/9/2042	5	100	
3	Demolition	Demolition	2/3/2042	2/14/2042	5	10	
4	Grading	Grading	2/18/2042	2/19/2042	5	2	
5	Paving	Paving	7/10/2042	7/16/2042	5	5	
6	Site Preparation	Site Preparation	2/15/2042	2/17/2042	5	1	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 163,131; Non-Residential Outdoor: 54,377; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

Trips and VMT

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	46.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	4.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Architectural Coating - 2042

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	201.6299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	201.7448	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

Unmitigated Construction Off-Site

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	7.0200e-003	0.1751	6.5000e-004	0.1006	1.9000e-004	0.1008	0.0267	1.8000e-004	0.0269		73.1793	73.1793	6.3000e-004	1.2100e-003	73.5566
Total	0.0127	7.0200e-003	0.1751	6.5000e-004	0.1006	1.9000e-004	0.1008	0.0267	1.8000e-004	0.0269		73.1793	73.1793	6.3000e-004	1.2100e-003	73.5566

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	201.6299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	201.7448	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

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	0.0000

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	7.0200e-003	0.1751	6.5000e-004	0.0927	1.9000e-004	0.0929	0.0248	1.8000e-004	0.0249		73.1793	73.1793	6.3000e-004	1.2100e-003	73.5566
Total	0.0127	7.0200e-003	0.1751	6.5000e-004	0.0927	1.9000e-004	0.0929	0.0248	1.8000e-004	0.0249		73.1793	73.1793	6.3000e-004	1.2100e-003	73.5566

3.3 Building Construction - 2042

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	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355		1,322.7958	1,322.7958	0.0492		1,324.0257
Total	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355		1,322.7958	1,322.7958	0.0492		1,324.0257

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	0.0000
Vendor	0.0186	0.6013	0.2431	2.5300e-003	0.1153	4.3300e-003	0.1196	0.0332	4.1400e-003	0.0373		270.5183	270.5183	6.0900e-003	0.0396	282.4765
Worker	0.0650	0.0359	0.8952	3.3200e-003	0.5142	9.9000e-004	0.5152	0.1364	9.1000e-004	0.1373		374.0273	374.0273	3.2000e-003	6.2000e-003	375.9561
Total	0.0836	0.6372	1.1382	5.8500e-003	0.6295	5.3200e-003	0.6348	0.1696	5.0500e-003	0.1746		644.5456	644.5456	9.2900e-003	0.0458	658.4326

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355	0.0000	1,322.7958	1,322.7958	0.0492		1,324.0257
Total	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355	0.0000	1,322.7958	1,322.7958	0.0492		1,324.0257

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	0.0000
Vendor	0.0186	0.6013	0.2431	2.5300e-003	0.1079	4.3300e-003	0.1123	0.0314	4.1400e-003	0.0355		270.5183	270.5183	6.0900e-003	0.0396	282.4765
Worker	0.0650	0.0359	0.8952	3.3200e-003	0.4739	9.9000e-004	0.4749	0.1265	9.1000e-004	0.1274		374.0273	374.0273	3.2000e-003	6.2000e-003	375.9561
Total	0.0836	0.6372	1.1382	5.8500e-003	0.5819	5.3200e-003	0.5872	0.1579	5.0500e-003	0.1629		644.5456	644.5456	9.2900e-003	0.0458	658.4326

3.4 Demolition - 2042

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
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Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					2.8418	0.0000	2.8418	0.4303	0.0000	0.4303			0.0000		0.0000
Off-Road	0.4996	3.0819	7.4089	0.0133		0.0355	0.0355		0.0355	0.0355		1,256.0421	1,256.0421	0.0434	1,257.1273
Total	0.4996	3.0819	7.4089	0.0133	2.8418	0.0355	2.8773	0.4303	0.0355	0.4658		1,256.0421	1,256.0421	0.0434	1,257.1273

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	0.0299	1.3261	0.4345	5.6000e-003	0.2311	0.0137	0.2448	0.0634	0.0131	0.0765		606.9530	606.9530	0.0228	0.0961	636.1451
Vendor	4.1300e-003	0.1336	0.0540	5.6000e-004	0.0256	9.6000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		60.1152	60.1152	1.3500e-003	8.8000e-003	62.7726
Worker	0.0141	7.8000e-003	0.1946	7.2000e-004	0.1118	2.1000e-004	0.1120	0.0296	2.0000e-004	0.0298		81.3103	81.3103	7.0000e-004	1.3500e-003	81.7296
Total	0.0482	1.4676	0.6831	6.8800e-003	0.3685	0.0149	0.3834	0.1004	0.0142	0.1146		748.3784	748.3784	0.0248	0.1062	780.6472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2149	0.0000	1.2149	0.1839	0.0000	0.1839			0.0000			0.0000
Off-Road	0.4996	3.0819	7.4089	0.0133		0.0355	0.0355		0.0355	0.0355	0.0000	1,256.0421	1,256.0421	0.0434		1,257.1273

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.4996	3.0819	7.4089	0.0133	1.2149	0.0355	1.2504	0.1839	0.0355	0.2194	0.0000	1,256.0421	1,256.0421	0.0434		1,257.1273
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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	0.0299	1.3261	0.4345	5.6000e-003	0.2154	0.0137	0.2291	0.0595	0.0131	0.0726		606.9530	606.9530	0.0228	0.0961	636.1451
Vendor	4.1300e-003	0.1336	0.0540	5.6000e-004	0.0240	9.6000e-004	0.0249	6.9800e-003	9.2000e-004	7.9000e-003		60.1152	60.1152	1.3500e-003	8.8000e-003	62.7726
Worker	0.0141	7.8000e-003	0.1946	7.2000e-004	0.1030	2.1000e-004	0.1033	0.0275	2.0000e-004	0.0277		81.3103	81.3103	7.0000e-004	1.3500e-003	81.7296
Total	0.0482	1.4676	0.6831	6.8800e-003	0.3424	0.0149	0.3573	0.0940	0.0142	0.1082		748.3784	748.3784	0.0248	0.1062	780.6472

3.5 Grading - 2042

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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.6620	2.2462	4.8010	0.0173		0.0626	0.0626		0.0626	0.0626		1,633.8245	1,633.8245	0.0582		1,635.2789
Total	0.6620	2.2462	4.8010	0.0173	5.3119	0.0626	5.3745	2.5686	0.0626	2.6311		1,633.8245	1,633.8245	0.0582		1,635.2789

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	4.1300e-003	0.1336	0.0540	5.6000e-004	0.0256	9.6000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		60.1152	60.1152	1.3500e-003	8.8000e-003	62.7726
Worker	0.0113	6.2400e-003	0.1557	5.8000e-004	0.0894	1.7000e-004	0.0896	0.0237	1.6000e-004	0.0239		65.0482	65.0482	5.6000e-004	1.0800e-003	65.3837
Total	0.0154	0.1399	0.2097	1.1400e-003	0.1150	1.1300e-003	0.1162	0.0311	1.0800e-003	0.0322		125.1634	125.1634	1.9100e-003	9.8800e-003	128.1562

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					2.2709	0.0000	2.2709	1.0981	0.0000	1.0981			0.0000			0.0000
Off-Road	0.6620	2.2462	4.8010	0.0173		0.0626	0.0626		0.0626	0.0626	0.0000	1,633.8245	1,633.8245	0.0582		1,635.2789
Total	0.6620	2.2462	4.8010	0.0173	2.2709	0.0626	2.3334	1.0981	0.0626	1.1606	0.0000	1,633.8245	1,633.8245	0.0582		1,635.2789

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	4.1300e-003	0.1336	0.0540	5.6000e-004	0.0240	9.6000e-004	0.0249	6.9800e-003	9.2000e-004	7.9000e-003	60.1152	60.1152	1.3500e-003	8.8000e-003	62.7726	
Worker	0.0113	6.2400e-003	0.1557	5.8000e-004	0.0824	1.7000e-004	0.0826	0.0220	1.6000e-004	0.0222	65.0482	65.0482	5.6000e-004	1.0800e-003	65.3837	
Total	0.0154	0.1399	0.2097	1.1400e-003	0.1064	1.1300e-003	0.1075	0.0290	1.0800e-003	0.0301	125.1634	125.1634	1.9100e-003	9.8800e-003	128.1562	

3.6 Paving - 2042

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	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844		1,211.7777	1,211.7777	0.0538		1,213.1222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844		1,211.7777	1,211.7777	0.0538		1,213.1222

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	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

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0254	0.0140	0.3503	1.3000e-003	0.2012	3.9000e-004	0.2016	0.0534	3.6000e-004	0.0537		146.3585	146.3585	1.2500e-003	2.4300e-003	147.1133
Total	0.0254	0.0140	0.3503	1.3000e-003	0.2012	3.9000e-004	0.2016	0.0534	3.6000e-004	0.0537		146.3585	146.3585	1.2500e-003	2.4300e-003	147.1133

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	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844	0.0000	1,211.7777	1,211.7777	0.0538		1,213.1222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844	0.0000	1,211.7777	1,211.7777	0.0538		1,213.1222

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0254	0.0140	0.3503	1.3000e-003	0.1855	3.9000e-004	0.1858	0.0495	3.6000e-004	0.0499		146.3585	146.3585	1.2500e-003	2.4300e-003	147.1133
Total	0.0254	0.0140	0.3503	1.3000e-003	0.1855	3.9000e-004	0.1858	0.0495	3.6000e-004	0.0499		146.3585	146.3585	1.2500e-003	2.4300e-003	147.1133

Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Site Preparation - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4150	1.4268	3.8760	0.0119		0.0277	0.0277		0.0277	0.0277		1,128.1977	1,128.1977	0.0369		1,129.1206
Total	0.4150	1.4268	3.8760	0.0119	0.5303	0.0277	0.5580	0.0573	0.0277	0.0850		1,128.1977	1,128.1977	0.0369		1,129.1206

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	0.0000
Vendor	2.0700e-003	0.0668	0.0270	2.8000e-004	0.0128	4.8000e-004	0.0133	3.6900e-003	4.6000e-004	4.1500e-003		30.0576	30.0576	6.8000e-004	4.4000e-003	31.3863
Worker	7.0700e-003	3.9000e-003	0.0973	3.6000e-004	0.0559	1.1000e-004	0.0560	0.0148	1.0000e-004	0.0149		40.6551	40.6551	3.5000e-004	6.7000e-004	40.8648
Total	9.1400e-003	0.0707	0.1243	6.4000e-004	0.0687	5.9000e-004	0.0693	0.0185	5.6000e-004	0.0191		70.7127	70.7127	1.0300e-003	5.0700e-003	72.2511

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
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Construction Phase 4 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000		0.0000
Off-Road	0.4150	1.4268	3.8760	0.0119		0.0277	0.0277		0.0277	0.0277	0.0000	1,128.1977	1,128.1977	0.0369	1,129.1206
Total	0.4150	1.4268	3.8760	0.0119	0.2267	0.0277	0.2544	0.0245	0.0277	0.0522	0.0000	1,128.1977	1,128.1977	0.0369	1,129.1206

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	0.0000
Vendor	2.0700e-003	0.0668	0.0270	2.8000e-004	0.0120	4.8000e-004	0.0125	3.4900e-003	4.6000e-004	3.9500e-003		30.0576	30.0576	6.8000e-004	4.4000e-003	31.3863
Worker	7.0700e-003	3.9000e-003	0.0973	3.6000e-004	0.0515	1.1000e-004	0.0516	0.0138	1.0000e-004	0.0139		40.6551	40.6551	3.5000e-004	6.7000e-004	40.8648
Total	9.1400e-003	0.0707	0.1243	6.4000e-004	0.0635	5.9000e-004	0.0641	0.0172	5.6000e-004	0.0178		70.7127	70.7127	1.0300e-003	5.0700e-003	72.2511

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 4
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	108.75	1000sqft	0.73	108,754.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2045

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Off-road Equipment -
- Off-road Equipment -
- Demolition -
- Trips and VMT - See Construction Phase 4 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	2.50	0.73
tblTripsAndVMT	HaulingTripNumber	131.00	132.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2042	201.7576	4.6310	8.1423	0.0201	5.4270	0.0848	5.4907	2.5996	0.0848	2.6633	0.0000	1,998.0224	1,998.0224	0.0681	0.1064	2,031.4422
Maximum	201.7576	4.6310	8.1423	0.0201	5.4270	0.0848	5.4907	2.5996	0.0848	2.6633	0.0000	1,998.0224	1,998.0224	0.0681	0.1064	2,031.4422

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					
2042	201.7576	4.6310	8.1423	0.0201	2.3773	0.0848	2.4410	1.1270	0.0848	1.1907	0.0000	1,998.0224	1,998.0224	0.0681	0.1064	2,031.4422
Maximum	201.7576	4.6310	8.1423	0.0201	2.3773	0.0848	2.4410	1.1270	0.0848	1.1907	0.0000	1,998.0224	1,998.0224	0.0681	0.1064	2,031.4422

	ROG	NOx	CO	SO2	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	56.20	0.00	55.54	56.65	0.00	55.29	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	7/17/2042	7/23/2042	5	5	
2	Building Construction	Building Construction	2/20/2042	7/9/2042	5	100	
3	Demolition	Demolition	2/3/2042	2/14/2042	5	10	
4	Grading	Grading	2/18/2042	2/19/2042	5	2	
5	Paving	Paving	7/10/2042	7/16/2042	5	5	
6	Site Preparation	Site Preparation	2/15/2042	2/17/2042	5	1	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 163,131; Non-Residential Outdoor: 54,377; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

Trips and VMT

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	46.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	4.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Architectural Coating - 2042

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	201.6299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	201.7448	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

Unmitigated Construction Off-Site

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	7.3400e-003	0.1450	5.9000e-004	0.1006	1.9000e-004	0.1008	0.0267	1.8000e-004	0.0269		66.3564	66.3564	6.4000e-004	1.2500e-003	66.7448
Total	0.0127	7.3400e-003	0.1450	5.9000e-004	0.1006	1.9000e-004	0.1008	0.0267	1.8000e-004	0.0269		66.3564	66.3564	6.4000e-004	1.2500e-003	66.7448

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	201.6299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	201.7448	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

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	0.0000

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	7.3400e-003	0.1450	5.9000e-004	0.0927	1.9000e-004	0.0929	0.0248	1.8000e-004	0.0249		66.3564	66.3564	6.4000e-004	1.2500e-003	66.7448
Total	0.0127	7.3400e-003	0.1450	5.9000e-004	0.0927	1.9000e-004	0.0929	0.0248	1.8000e-004	0.0249		66.3564	66.3564	6.4000e-004	1.2500e-003	66.7448

3.3 Building Construction - 2042

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	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355		1,322.7958	1,322.7958	0.0492		1,324.0257
Total	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355		1,322.7958	1,322.7958	0.0492		1,324.0257

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	0.0000
Vendor	0.0170	0.6360	0.2509	2.5400e-003	0.1153	4.3400e-003	0.1197	0.0332	4.1600e-003	0.0374		271.2390	271.2390	6.0100e-003	0.0398	283.2335
Worker	0.0651	0.0375	0.7410	3.0100e-003	0.5142	9.9000e-004	0.5152	0.1364	9.1000e-004	0.1373		339.1547	339.1547	3.3000e-003	6.3900e-003	341.1400
Total	0.0822	0.6735	0.9919	5.5500e-003	0.6295	5.3300e-003	0.6348	0.1696	5.0700e-003	0.1746		610.3938	610.3938	9.3100e-003	0.0461	624.3736

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355	0.0000	1,322.7958	1,322.7958	0.0492		1,324.0257
Total	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355	0.0000	1,322.7958	1,322.7958	0.0492		1,324.0257

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	0.0000
Vendor	0.0170	0.6360	0.2509	2.5400e-003	0.1079	4.3400e-003	0.1123	0.0314	4.1600e-003	0.0355		271.2390	271.2390	6.0100e-003	0.0398	283.2335
Worker	0.0651	0.0375	0.7410	3.0100e-003	0.4739	9.9000e-004	0.4749	0.1265	9.1000e-004	0.1274		339.1547	339.1547	3.3000e-003	6.3900e-003	341.1400
Total	0.0822	0.6735	0.9919	5.5500e-003	0.5819	5.3300e-003	0.5872	0.1579	5.0700e-003	0.1629		610.3938	610.3938	9.3100e-003	0.0461	624.3736

3.4 Demolition - 2042

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
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Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					2.8418	0.0000	2.8418	0.4303	0.0000	0.4303			0.0000		0.0000
Off-Road	0.4996	3.0819	7.4089	0.0133		0.0355	0.0355		0.0355	0.0355		1,256.0421	1,256.0421	0.0434	1,257.1273
Total	0.4996	3.0819	7.4089	0.0133	2.8418	0.0355	2.8773	0.4303	0.0355	0.4658		1,256.0421	1,256.0421	0.0434	1,257.1273

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	0.0275	1.3996	0.4423	5.6100e-003	0.2311	0.0137	0.2448	0.0634	0.0131	0.0765		607.9757	607.9757	0.0227	0.0962	637.2132
Vendor	3.7900e-003	0.1413	0.0558	5.6000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		60.2753	60.2753	1.3400e-003	8.8300e-003	62.9408
Worker	0.0142	8.1600e-003	0.1611	6.5000e-004	0.1118	2.1000e-004	0.1120	0.0296	2.0000e-004	0.0298		73.7293	73.7293	7.2000e-004	1.3900e-003	74.1609
Total	0.0454	1.5491	0.6592	6.8200e-003	0.3685	0.0149	0.3834	0.1004	0.0142	0.1146		741.9803	741.9803	0.0247	0.1064	774.3148

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2149	0.0000	1.2149	0.1839	0.0000	0.1839			0.0000			0.0000
Off-Road	0.4996	3.0819	7.4089	0.0133		0.0355	0.0355		0.0355	0.0355	0.0000	1,256.0421	1,256.0421	0.0434		1,257.1273

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.4996	3.0819	7.4089	0.0133	1.2149	0.0355	1.2504	0.1839	0.0355	0.2194	0.0000	1,256.0421	1,256.0421	0.0434		1,257.1273
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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	0.0275	1.3996	0.4423	5.6100e-003	0.2154	0.0137	0.2291	0.0595	0.0131	0.0726		607.9757	607.9757	0.0227	0.0962	637.2132
Vendor	3.7900e-003	0.1413	0.0558	5.6000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.2000e-004	7.9000e-003		60.2753	60.2753	1.3400e-003	8.8300e-003	62.9408
Worker	0.0142	8.1600e-003	0.1611	6.5000e-004	0.1030	2.1000e-004	0.1033	0.0275	2.0000e-004	0.0277		73.7293	73.7293	7.2000e-004	1.3900e-003	74.1609
Total	0.0454	1.5491	0.6592	6.8200e-003	0.3424	0.0149	0.3573	0.0940	0.0142	0.1082		741.9803	741.9803	0.0247	0.1064	774.3148

3.5 Grading - 2042

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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.6620	2.2462	4.8010	0.0173		0.0626	0.0626		0.0626	0.0626		1,633.8245	1,633.8245	0.0582		1,635.2789
Total	0.6620	2.2462	4.8010	0.0173	5.3119	0.0626	5.3745	2.5686	0.0626	2.6311		1,633.8245	1,633.8245	0.0582		1,635.2789

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	3.7900e-003	0.1413	0.0558	5.6000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		60.2753	60.2753	1.3400e-003	8.8300e-003	62.9408
Worker	0.0113	6.5300e-003	0.1289	5.2000e-004	0.0894	1.7000e-004	0.0896	0.0237	1.6000e-004	0.0239		58.9834	58.9834	5.7000e-004	1.1100e-003	59.3287
Total	0.0151	0.1479	0.1846	1.0800e-003	0.1150	1.1400e-003	0.1162	0.0311	1.0800e-003	0.0322		119.2588	119.2588	1.9100e-003	9.9400e-003	122.2695

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					2.2709	0.0000	2.2709	1.0981	0.0000	1.0981			0.0000			0.0000
Off-Road	0.6620	2.2462	4.8010	0.0173		0.0626	0.0626		0.0626	0.0626	0.0000	1,633.8245	1,633.8245	0.0582		1,635.2789
Total	0.6620	2.2462	4.8010	0.0173	2.2709	0.0626	2.3334	1.0981	0.0626	1.1606	0.0000	1,633.8245	1,633.8245	0.0582		1,635.2789

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	3.7900e-003	0.1413	0.0558	5.6000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.2000e-004	7.9000e-003	60.2753	60.2753	1.3400e-003	8.8300e-003	62.9408	
Worker	0.0113	6.5300e-003	0.1289	5.2000e-004	0.0824	1.7000e-004	0.0826	0.0220	1.6000e-004	0.0222	58.9834	58.9834	5.7000e-004	1.1100e-003	59.3287	
Total	0.0151	0.1479	0.1846	1.0800e-003	0.1064	1.1400e-003	0.1076	0.0290	1.0800e-003	0.0301	119.2588	119.2588	1.9100e-003	9.9400e-003	122.2695	

3.6 Paving - 2042

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	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844		1,211.7777	1,211.7777	0.0538		1,213.1222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844		1,211.7777	1,211.7777	0.0538		1,213.1222

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	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

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0255	0.0147	0.2900	1.1800e-003	0.2012	3.9000e-004	0.2016	0.0534	3.6000e-004	0.0537		132.7127	132.7127	1.2900e-003	2.5000e-003	133.4896
Total	0.0255	0.0147	0.2900	1.1800e-003	0.2012	3.9000e-004	0.2016	0.0534	3.6000e-004	0.0537		132.7127	132.7127	1.2900e-003	2.5000e-003	133.4896

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	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844	0.0000	1,211.7777	1,211.7777	0.0538		1,213.1222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844	0.0000	1,211.7777	1,211.7777	0.0538		1,213.1222

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0255	0.0147	0.2900	1.1800e-003	0.1855	3.9000e-004	0.1858	0.0495	3.6000e-004	0.0499		132.7127	132.7127	1.2900e-003	2.5000e-003	133.4896
Total	0.0255	0.0147	0.2900	1.1800e-003	0.1855	3.9000e-004	0.1858	0.0495	3.6000e-004	0.0499		132.7127	132.7127	1.2900e-003	2.5000e-003	133.4896

Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Site Preparation - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4150	1.4268	3.8760	0.0119		0.0277	0.0277		0.0277	0.0277		1,128.1977	1,128.1977	0.0369		1,129.1206
Total	0.4150	1.4268	3.8760	0.0119	0.5303	0.0277	0.5580	0.0573	0.0277	0.0850		1,128.1977	1,128.1977	0.0369		1,129.1206

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	0.0000
Vendor	1.8900e-003	0.0707	0.0279	2.8000e-004	0.0128	4.8000e-004	0.0133	3.6900e-003	4.6000e-004	4.1500e-003		30.1377	30.1377	6.7000e-004	4.4200e-003	31.4704
Worker	7.0800e-003	4.0800e-003	0.0806	3.3000e-004	0.0559	1.1000e-004	0.0560	0.0148	1.0000e-004	0.0149		36.8647	36.8647	3.6000e-004	6.9000e-004	37.0804
Total	8.9700e-003	0.0747	0.1084	6.1000e-004	0.0687	5.9000e-004	0.0693	0.0185	5.6000e-004	0.0191		67.0023	67.0023	1.0300e-003	5.1100e-003	68.5508

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
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Construction Phase 4 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000		0.0000
Off-Road	0.4150	1.4268	3.8760	0.0119		0.0277	0.0277		0.0277	0.0277	0.0000	1,128.1977	1,128.1977	0.0369	1,129.1206
Total	0.4150	1.4268	3.8760	0.0119	0.2267	0.0277	0.2544	0.0245	0.0277	0.0522	0.0000	1,128.1977	1,128.1977	0.0369	1,129.1206

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	0.0000
Vendor	1.8900e-003	0.0707	0.0279	2.8000e-004	0.0120	4.8000e-004	0.0125	3.4900e-003	4.6000e-004	3.9500e-003		30.1377	30.1377	6.7000e-004	4.4200e-003	31.4704
Worker	7.0800e-003	4.0800e-003	0.0806	3.3000e-004	0.0515	1.1000e-004	0.0516	0.0138	1.0000e-004	0.0139		36.8647	36.8647	3.6000e-004	6.9000e-004	37.0804
Total	8.9700e-003	0.0747	0.1084	6.1000e-004	0.0635	5.9000e-004	0.0641	0.0172	5.6000e-004	0.0178		67.0023	67.0023	1.0300e-003	5.1100e-003	68.5508

Construction Phase 4 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 4
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	108.75	1000sqft	0.73	108,754.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2045

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Off-road Equipment -
- Off-road Equipment -
- Demolition -
- Trips and VMT - See Construction Phase 4 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	2.50	0.73
tblTripsAndVMT	HaulingTripNumber	131.00	132.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Construction Phase 4 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2042	0.5418	0.2089	0.4803	1.1500e-003	0.0534	2.6000e-003	0.0560	0.0138	2.5800e-003	0.0164	0.0000	103.0184	103.0184	3.1900e-003	2.6000e-003	103.8733
Maximum	0.5418	0.2089	0.4803	1.1500e-003	0.0534	2.6000e-003	0.0560	0.0138	2.5800e-003	0.0164	0.0000	103.0184	103.0184	3.1900e-003	2.6000e-003	103.8733

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					
2042	0.5418	0.2089	0.4803	1.1500e-003	0.0395	2.6000e-003	0.0421	0.0105	2.5800e-003	0.0131	0.0000	103.0183	103.0183	3.1900e-003	2.6000e-003	103.8732
Maximum	0.5418	0.2089	0.4803	1.1500e-003	0.0395	2.6000e-003	0.0421	0.0105	2.5800e-003	0.0131	0.0000	103.0183	103.0183	3.1900e-003	2.6000e-003	103.8732

	ROG	NOx	CO	SO2	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	25.95	0.00	24.74	24.11	0.00	20.37	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	2-3-2042	5-2-2042	0.1317	0.1317
2	5-3-2042	8-2-2042	0.6146	0.6146
		Highest	0.6146	0.6146

Construction Phase 4 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	7/17/2042	7/23/2042	5	5	
2	Building Construction	Building Construction	2/20/2042	7/9/2042	5	100	
3	Demolition	Demolition	2/3/2042	2/14/2042	5	10	
4	Grading	Grading	2/18/2042	2/19/2042	5	2	
5	Paving	Paving	7/10/2042	7/16/2042	5	5	
6	Site Preparation	Site Preparation	2/15/2042	2/17/2042	5	1	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 163,131; Non-Residential Outdoor: 54,377; Striped Parking Area: 0 (Architectural

OffRoad Equipment

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

Construction Phase 4 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	46.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	4.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Architectural Coating - 2042

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	0.5041					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8200e-003	4.4800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389
Total	0.5044	1.8200e-003	4.4800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389

**Construction Phase 4 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	3.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1535	0.1535	0.0000	0.0000	0.1544
Total	3.0000e-005	2.0000e-005	3.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1535	0.1535	0.0000	0.0000	0.1544

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	0.5041					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8200e-003	4.4800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389
Total	0.5044	1.8200e-003	4.4800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	3.8000e-004	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1535	0.1535	0.0000	0.0000	0.1544
Total	3.0000e-005	2.0000e-005	3.8000e-004	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1535	0.1535	0.0000	0.0000	0.1544

3.3 Building Construction - 2042

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0283	0.1393	0.3575	7.0000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	60.0010	60.0010	2.2300e-003	0.0000	60.0568
Total	0.0283	0.1393	0.3575	7.0000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	60.0010	60.0010	2.2300e-003	0.0000	60.0568

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	8.9000e-004	0.0316	0.0123	1.3000e-004	5.6800e-003	2.2000e-004	5.8900e-003	1.6400e-003	2.1000e-004	1.8500e-003	0.0000	12.2843	12.2843	2.7000e-004	1.8000e-003	12.8276
Worker	2.9700e-003	1.9600e-003	0.0389	1.5000e-004	0.0252	5.0000e-005	0.0253	6.7000e-003	5.0000e-005	6.7400e-003	0.0000	15.6861	15.6861	1.5000e-004	3.0000e-004	15.7789

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	3.8600e-003	0.0336	0.0512	2.8000e-004	0.0309	2.7000e-004	0.0312	8.3400e-003	2.6000e-004	8.5900e-003	0.0000	27.9703	27.9703	4.2000e-004	2.1000e-003	28.6064
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0283	0.1393	0.3575	7.0000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	60.0009	60.0009	2.2300e-003	0.0000	60.0567
Total	0.0283	0.1393	0.3575	7.0000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	60.0009	60.0009	2.2300e-003	0.0000	60.0567

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	8.9000e-004	0.0316	0.0123	1.3000e-004	5.3100e-003	2.2000e-004	5.5300e-003	1.5500e-003	2.1000e-004	1.7600e-003	0.0000	12.2843	12.2843	2.7000e-004	1.8000e-003	12.8276
Worker	2.9700e-003	1.9600e-003	0.0389	1.5000e-004	0.0233	5.0000e-005	0.0233	6.2100e-003	5.0000e-005	6.2600e-003	0.0000	15.6861	15.6861	1.5000e-004	3.0000e-004	15.7789
Total	3.8600e-003	0.0336	0.0512	2.8000e-004	0.0286	2.7000e-004	0.0288	7.7600e-003	2.6000e-004	8.0200e-003	0.0000	27.9703	27.9703	4.2000e-004	2.1000e-003	28.6064

3.4 Demolition - 2042

Unmitigated Construction On-Site

Construction Phase 4 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	2.1500e-003	0.0000	2.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-003	0.0154	0.0370	7.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	5.6973	5.6973	2.0000e-004	0.0000	5.7022
Total	2.5000e-003	0.0154	0.0370	7.0000e-005	0.0142	1.8000e-004	0.0144	2.1500e-003	1.8000e-004	2.3300e-003	0.0000	5.6973	5.6973	2.0000e-004	0.0000	5.7022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	7.0100e-003	2.1900e-003	3.0000e-005	1.1400e-003	7.0000e-005	1.2000e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	2.7550	2.7550	1.0000e-004	4.4000e-004	2.8875
Vendor	2.0000e-005	7.0000e-004	2.7000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2730	0.2730	1.0000e-005	4.0000e-005	0.2851
Worker	6.0000e-005	4.0000e-005	8.4000e-004	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3410	0.3410	0.0000	1.0000e-005	0.3430
Total	2.2000e-004	7.7500e-003	3.3000e-003	3.0000e-005	1.8200e-003	7.0000e-005	1.8800e-003	5.0000e-004	7.0000e-005	5.7000e-004	0.0000	3.3690	3.3690	1.1000e-004	4.9000e-004	3.5156

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					

Construction Phase 4 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					6.0700e-003	0.0000	6.0700e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-003	0.0154	0.0370	7.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	5.6973	5.6973	2.0000e-004	0.0000	5.7022
Total	2.5000e-003	0.0154	0.0370	7.0000e-005	6.0700e-003	1.8000e-004	6.2500e-003	9.2000e-004	1.8000e-004	1.1000e-003	0.0000	5.6973	5.6973	2.0000e-004	0.0000	5.7022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	7.0100e-003	2.1900e-003	3.0000e-005	1.0600e-003	7.0000e-005	1.1300e-003	2.9000e-004	7.0000e-005	3.6000e-004	0.0000	2.7550	2.7550	1.0000e-004	4.4000e-004	2.8875
Vendor	2.0000e-005	7.0000e-004	2.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.2730	0.2730	1.0000e-005	4.0000e-005	0.2851
Worker	6.0000e-005	4.0000e-005	8.4000e-004	0.0000	5.1000e-004	0.0000	5.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3410	0.3410	0.0000	1.0000e-005	0.3435
Total	2.2000e-004	7.7500e-003	3.3000e-003	3.0000e-005	1.6900e-003	7.0000e-005	1.7600e-003	4.6000e-004	7.0000e-005	5.4000e-004	0.0000	3.3690	3.3690	1.1000e-004	4.9000e-004	3.5156

3.5 Grading - 2042

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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-004	2.2500e-003	4.8000e-003	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.4822	1.4822	5.0000e-005	0.0000	1.4835
Total	6.6000e-004	2.2500e-003	4.8000e-003	2.0000e-005	5.3100e-003	6.0000e-005	5.3700e-003	2.5700e-003	6.0000e-005	2.6300e-003	0.0000	1.4822	1.4822	5.0000e-005	0.0000	1.4835

**Construction Phase 4 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	1.4000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0546	0.0546	0.0000	1.0000e-005	0.0570
Worker	1.0000e-005	1.0000e-005	1.4000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0546	0.0546	0.0000	0.0000	0.0549
Total	1.0000e-005	1.5000e-004	1.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1092	0.1092	0.0000	1.0000e-005	0.1119

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					2.2700e-003	0.0000	2.2700e-003	1.1000e-003	0.0000	1.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-004	2.2500e-003	4.8000e-003	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.4822	1.4822	5.0000e-005	0.0000	1.4835
Total	6.6000e-004	2.2500e-003	4.8000e-003	2.0000e-005	2.2700e-003	6.0000e-005	2.3300e-003	1.1000e-003	6.0000e-005	1.1600e-003	0.0000	1.4822	1.4822	5.0000e-005	0.0000	1.4835

Mitigated Construction Off-Site

Construction Phase 4 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	1.4000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0546	0.0546	0.0000	1.0000e-005	0.0570
Worker	1.0000e-005	1.0000e-005	1.4000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0546	0.0546	0.0000	0.0000	0.0549
Total	1.0000e-005	1.5000e-004	1.9000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1092	0.1092	0.0000	1.0000e-005	0.1119

3.6 Paving - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	7.8300e-003	0.0187	3.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	2.7483	2.7483	1.2000e-004	0.0000	2.7513
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5200e-003	7.8300e-003	0.0187	3.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	2.7483	2.7483	1.2000e-004	0.0000	2.7513

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					

Construction Phase 4 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	6.0000e-005	4.0000e-005	7.6000e-004	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3069	0.3069	0.0000	1.0000e-005	0.3087
Total	6.0000e-005	4.0000e-005	7.6000e-004	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3069	0.3069	0.0000	1.0000e-005	0.3087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	7.8300e-003	0.0187	3.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	2.7483	2.7483	1.2000e-004	0.0000	2.7513
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5200e-003	7.8300e-003	0.0187	3.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	2.7483	2.7483	1.2000e-004	0.0000	2.7513

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	6.0000e-005	4.0000e-005	7.6000e-004	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3069	0.3069	0.0000	1.0000e-005	0.3087

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	6.0000e-005	4.0000e-005	7.6000e-004	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3069	0.3069	0.0000	1.0000e-005	0.3087
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3.7 Site Preparation - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	7.1000e-004	1.9400e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122
Total	2.1000e-004	7.1000e-004	1.9400e-003	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122

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	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0137	0.0137	0.0000	0.0000	0.0143
Worker	0.0000	0.0000	4.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0171	0.0171	0.0000	0.0000	0.0172
Total	0.0000	4.0000e-005	5.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0307	0.0307	0.0000	0.0000	0.0314

Construction Phase 4 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	7.1000e-004	1.9400e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122
Total	2.1000e-004	7.1000e-004	1.9400e-003	1.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122

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	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0137	0.0137	0.0000	0.0000	0.0143
Worker	0.0000	0.0000	4.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0171	0.0171	0.0000	0.0000	0.0172
Total	0.0000	4.0000e-005	5.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0307	0.0307	0.0000	0.0000	0.0314

Construction Phase 4
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	7	No Change	0.00

Construction Phase 4

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	2.90000E-004	1.82000E-003	4.48000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.38310E-001	6.38310E-001	2.00000E-005	0.00000E+000	6.38880E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	1.02000E-003	7.48000E-003	1.81300E-002	3.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	2.68828E+000	2.68828E+000	8.00000E-005	0.00000E+000	2.69029E+000
Cranes	5.76000E-003	1.01600E-002	3.37900E-002	1.80000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.52281E+001	1.52281E+001	4.60000E-004	0.00000E+000	1.52395E+001
Forklifts	6.50000E-003	3.51100E-002	8.93300E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Graders	3.20000E-004	6.10000E-004	1.92000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	8.71430E-001	8.71430E-001	3.00000E-005	0.00000E+000	8.72080E-001
Pavers	4.50000E-004	1.23000E-003	6.99000E-003	1.00000E-005	6.00000E-005	6.00000E-005	0.00000E+000	1.08602E+000	1.08602E+000	4.00000E-005	0.00000E+000	1.08693E+000
Rollers	2.80000E-004	1.79000E-003	4.25000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.04670E-001	6.04670E-001	2.00000E-005	0.00000E+000	6.05230E-001
Rubber Tired Dozers	6.10000E-004	1.94000E-003	2.94000E-003	1.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	1.23525E+000	1.23525E+000	5.00000E-005	0.00000E+000	1.23645E+000
Tractors/Loaders/Bulldozers	1.78600E-002	1.04400E-001	2.60330E-001	4.20000E-004	1.12000E-003	1.12000E-003	0.00000E+000	3.62441E+001	3.62441E+001	1.40000E-003	0.00000E+000	3.62792E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	2.90000E-004	1.82000E-003	4.48000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.38310E-001	6.38310E-001	2.00000E-005	0.00000E+000	6.38870E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	1.02000E-003	7.48000E-003	1.81300E-002	3.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	2.68828E+000	2.68828E+000	8.00000E-005	0.00000E+000	2.69029E+000
Cranes	5.76000E-003	1.01600E-002	3.37900E-002	1.80000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.52281E+001	1.52281E+001	4.60000E-004	0.00000E+000	1.52395E+001
Forklifts	6.50000E-003	3.51100E-002	8.93300E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Graders	3.20000E-004	6.10000E-004	1.92000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	8.71430E-001	8.71430E-001	3.00000E-005	0.00000E+000	8.72080E-001
Pavers	4.50000E-004	1.23000E-003	6.99000E-003	1.00000E-005	6.00000E-005	6.00000E-005	0.00000E+000	1.08602E+000	1.08602E+000	4.00000E-005	0.00000E+000	1.08693E+000
Rollers	2.80000E-004	1.79000E-003	4.25000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.04670E-001	6.04670E-001	2.00000E-005	0.00000E+000	6.05230E-001
Rubber Tired Dozers	6.10000E-004	1.94000E-003	2.94000E-003	1.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	1.23525E+000	1.23525E+000	5.00000E-005	0.00000E+000	1.23645E+000
Tractors/Loaders/Bulldozers	1.78600E-002	1.04400E-001	2.60330E-001	4.20000E-004	1.12000E-003	1.12000E-003	0.00000E+000	3.62441E+001	3.62441E+001	1.40000E-003	0.00000E+000	3.62792E+001

Construction Phase 4

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.56524E-005
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31336E-006	1.31336E-006	0.00000E+000	0.00000E+000	1.31238E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.64760E-006	1.64760E-006	0.00000E+000	0.00000E+000	8.22931E-007
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Bulldozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10363E-006	1.10363E-006	0.00000E+000	0.00000E+000	1.37820E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction 0.00
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction 5.00
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction 55.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph) 15.00
Yes	Clean Paved Road	% PM Reduction	9.00	Frequency (per day) 2.00

Construction Phase 4

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.08	0.14
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.03	0.01	0.03	0.01	0.08	0.07
Demolition	Fugitive Dust	0.01	0.00	0.01	0.00	0.57	0.57
Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.08
Grading	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.17	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.59	0.67
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Output: Phase 4 Construction – Mitigated

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Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 4 Mitigated
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	108.75	1000sqft	0.73	108,754.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2045

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT - See Construction Phase 4 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Demolition -
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	2.50	0.73
tblTripsAndVMT	HaulingTripNumber	131.00	132.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2042	40.4536	4.5495	8.2886	0.0201	5.4270	0.0848	5.4907	2.5996	0.0848	2.6633	0.0000	2,004.4205	2,004.4205	0.0682	0.1062	2,037.7746
Maximum	40.4536	4.5495	8.2886	0.0201	5.4270	0.0848	5.4907	2.5996	0.0848	2.6633	0.0000	2,004.4205	2,004.4205	0.0682	0.1062	2,037.7746

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					
2042	40.4536	4.5495	8.2886	0.0201	2.3773	0.0848	2.4410	1.1270	0.0848	1.1907	0.0000	2,004.4205	2,004.4205	0.0682	0.1062	2,037.7746
Maximum	40.4536	4.5495	8.2886	0.0201	2.3773	0.0848	2.4410	1.1270	0.0848	1.1907	0.0000	2,004.4205	2,004.4205	0.0682	0.1062	2,037.7746

	ROG	NOx	CO	SO2	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	56.20	0.00	55.54	56.65	0.00	55.29	0.00	0.00	0.00	0.00	0.00	0.00

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2/3/2042	2/14/2042	5	10	
2	Site Preparation	Site Preparation	2/15/2042	2/17/2042	5	1	
3	Grading	Grading	2/18/2042	2/19/2042	5	2	
4	Building Construction	Building Construction	2/20/2042	7/9/2042	5	100	
5	Paving	Paving	7/10/2042	7/16/2042	5	5	
6	Architectural Coating	Architectural Coating	7/17/2042	7/23/2042	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 163,131; Non-Residential Outdoor: 54,377; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	4	10.00	4.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	46.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8418	0.0000	2.8418	0.4303	0.0000	0.4303			0.0000			0.0000
Off-Road	0.4996	3.0819	7.4089	0.0133		0.0355	0.0355		0.0355	0.0355		1,256.0421	1,256.0421	0.0434		1,257.1273
Total	0.4996	3.0819	7.4089	0.0133	2.8418	0.0355	2.8773	0.4303	0.0355	0.4658		1,256.0421	1,256.0421	0.0434		1,257.1273

Unmitigated Construction Off-Site

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0299	1.3261	0.4345	5.6000e-003	0.2311	0.0137	0.2448	0.0634	0.0131	0.0765		606.9530	606.9530	0.0228	0.0961	636.1451
Vendor	4.1300e-003	0.1336	0.0540	5.6000e-004	0.0256	9.6000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		60.1152	60.1152	1.3500e-003	8.8000e-003	62.7726
Worker	0.0141	7.8000e-003	0.1946	7.2000e-004	0.1118	2.1000e-004	0.1120	0.0296	2.0000e-004	0.0298		81.3103	81.3103	7.0000e-004	1.3500e-003	81.7296
Total	0.0482	1.4676	0.6831	6.8800e-003	0.3685	0.0149	0.3834	0.1004	0.0142	0.1146		748.3784	748.3784	0.0248	0.1062	780.6472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2149	0.0000	1.2149	0.1839	0.0000	0.1839			0.0000			0.0000
Off-Road	0.4996	3.0819	7.4089	0.0133		0.0355	0.0355		0.0355	0.0355	0.0000	1,256.0421	1,256.0421	0.0434		1,257.1273
Total	0.4996	3.0819	7.4089	0.0133	1.2149	0.0355	1.2504	0.1839	0.0355	0.2194	0.0000	1,256.0421	1,256.0421	0.0434		1,257.1273

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					

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0299	1.3261	0.4345	5.6000e-003	0.2154	0.0137	0.2291	0.0595	0.0131	0.0726		606.9530	606.9530	0.0228	0.0961	636.1451
Vendor	4.1300e-003	0.1336	0.0540	5.6000e-004	0.0240	9.6000e-004	0.0249	6.9800e-003	9.2000e-004	7.9000e-003		60.1152	60.1152	1.3500e-003	8.8000e-003	62.7726
Worker	0.0141	7.8000e-003	0.1946	7.2000e-004	0.1030	2.1000e-004	0.1033	0.0275	2.0000e-004	0.0277		81.3103	81.3103	7.0000e-004	1.3500e-003	81.7296
Total	0.0482	1.4676	0.6831	6.8800e-003	0.3424	0.0149	0.3573	0.0940	0.0142	0.1082		748.3784	748.3784	0.0248	0.1062	780.6472

3.3 Site Preparation - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4150	1.4268	3.8760	0.0119		0.0277	0.0277		0.0277	0.0277		1,128.1977	1,128.1977	0.0369		1,129.1206
Total	0.4150	1.4268	3.8760	0.0119	0.5303	0.0277	0.5580	0.0573	0.0277	0.0850		1,128.1977	1,128.1977	0.0369		1,129.1206

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	0.0000
Vendor	2.0700e-003	0.0668	0.0270	2.8000e-004	0.0128	4.8000e-004	0.0133	3.6900e-003	4.6000e-004	4.1500e-003		30.0576	30.0576	6.8000e-004	4.4000e-003	31.3863
Worker	7.0700e-003	3.9000e-003	0.0973	3.6000e-004	0.0559	1.1000e-004	0.0560	0.0148	1.0000e-004	0.0149		40.6551	40.6551	3.5000e-004	6.7000e-004	40.8648

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	9.1400e-003	0.0707	0.1243	6.4000e-004	0.0687	5.9000e-004	0.0693	0.0185	5.6000e-004	0.0191		70.7127	70.7127	1.0300e-003	5.0700e-003	72.2511
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.4150	1.4268	3.8760	0.0119		0.0277	0.0277		0.0277	0.0277	0.0000	1,128.1977	1,128.1977	0.0369		1,129.1206
Total	0.4150	1.4268	3.8760	0.0119	0.2267	0.0277	0.2544	0.0245	0.0277	0.0522	0.0000	1,128.1977	1,128.1977	0.0369		1,129.1206

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	0.0000
Vendor	2.0700e-003	0.0688	0.0270	2.8000e-004	0.0120	4.8000e-004	0.0125	3.4900e-003	4.6000e-004	3.9500e-003		30.0576	30.0576	6.8000e-004	4.4000e-003	31.3863
Worker	7.0700e-003	3.9000e-003	0.0973	3.6000e-004	0.0515	1.1000e-004	0.0516	0.0138	1.0000e-004	0.0139		40.6551	40.6551	3.5000e-004	6.7000e-004	40.8648
Total	9.1400e-003	0.0707	0.1243	6.4000e-004	0.0635	5.9000e-004	0.0641	0.0172	5.6000e-004	0.0178		70.7127	70.7127	1.0300e-003	5.0700e-003	72.2511

3.4 Grading - 2042

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.6620	2.2462	4.8010	0.0173		0.0626	0.0626		0.0626	0.0626		1,633.8245	1,633.8245	0.0582		1,635.2789
Total	0.6620	2.2462	4.8010	0.0173	5.3119	0.0626	5.3745	2.5686	0.0626	2.6311		1,633.8245	1,633.8245	0.0582		1,635.2789

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	0.0000
Vendor	4.1300e-003	0.1336	0.0540	5.6000e-004	0.0256	9.6000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		60.1152	60.1152	1.3500e-003	8.8000e-003	62.7726
Worker	0.0113	6.2400e-003	0.1557	5.8000e-004	0.0894	1.7000e-004	0.0896	0.0237	1.6000e-004	0.0239		65.0482	65.0482	5.6000e-004	1.0800e-003	65.3837
Total	0.0154	0.1399	0.2097	1.1400e-003	0.1150	1.1300e-003	0.1162	0.0311	1.0800e-003	0.0322		125.1634	125.1634	1.9100e-003	9.8800e-003	128.1562

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

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					2.2709	0.0000	2.2709	1.0981	0.0000	1.0981			0.0000		0.0000
Off-Road	0.6620	2.2462	4.8010	0.0173		0.0626	0.0626		0.0626	0.0626	0.0000	1,633.8245	1,633.8245	0.0582	1,635.2789
Total	0.6620	2.2462	4.8010	0.0173	2.2709	0.0626	2.3334	1.0981	0.0626	1.1606	0.0000	1,633.8245	1,633.8245	0.0582	1,635.2789

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	0.0000
Vendor	4.1300e-003	0.1336	0.0540	5.6000e-004	0.0240	9.6000e-004	0.0249	6.9800e-003	9.2000e-004	7.9000e-003		60.1152	60.1152	1.3500e-003	8.8000e-003	62.7726
Worker	0.0113	6.2400e-003	0.1557	5.8000e-004	0.0824	1.7000e-004	0.0826	0.0220	1.6000e-004	0.0222		65.0482	65.0482	5.6000e-004	1.0800e-003	65.3837
Total	0.0154	0.1399	0.2097	1.1400e-003	0.1064	1.1300e-003	0.1075	0.0290	1.0800e-003	0.0301		125.1634	125.1634	1.9100e-003	9.8800e-003	128.1562

3.5 Building Construction - 2042

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	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355		1,322.7958	1,322.7958	0.0492		1,324.0257
Total	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355		1,322.7958	1,322.7958	0.0492		1,324.0257

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0186	0.6013	0.2431	2.5300e-003	0.1153	4.3300e-003	0.1196	0.0332	4.1400e-003	0.0373		270.5183	270.5183	6.0900e-003	0.0396	282.4765
Worker	0.0650	0.0359	0.8952	3.3200e-003	0.5142	9.9000e-004	0.5152	0.1364	9.1000e-004	0.1373		374.0273	374.0273	3.2000e-003	6.2000e-003	375.9561
Total	0.0836	0.6372	1.1382	5.8500e-003	0.6295	5.3200e-003	0.6348	0.1696	5.0500e-003	0.1746		644.5456	644.5456	9.2900e-003	0.0458	658.4326

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	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355	0.0000	1,322.7958	1,322.7958	0.0492		1,324.0257
Total	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355	0.0000	1,322.7958	1,322.7958	0.0492		1,324.0257

Mitigated Construction Off-Site

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000
Vendor	0.0186	0.6013	0.2431	2.5300e-003	0.1079	4.3300e-003	0.1123	0.0314	4.1400e-003	0.0355		270.5183	270.5183	6.0900e-003	0.0396	282.4765
Worker	0.0650	0.0359	0.8952	3.3200e-003	0.4739	9.9000e-004	0.4749	0.1265	9.1000e-004	0.1274		374.0273	374.0273	3.2000e-003	6.2000e-003	375.9561
Total	0.0836	0.6372	1.1382	5.8500e-003	0.5819	5.3200e-003	0.5872	0.1579	5.0500e-003	0.1629		644.5456	644.5456	9.2900e-003	0.0458	658.4326

3.6 Paving - 2042

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	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844		1,211.7777	1,211.7777	0.0538		1,213.1222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844		1,211.7777	1,211.7777	0.0538		1,213.1222

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	0.0000

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0254	0.0140	0.3503	1.3000e-003	0.2012	3.9000e-004	0.2016	0.0534	3.6000e-004	0.0537		146.3585	146.3585	1.2500e-003	2.4300e-003	147.1133
Total	0.0254	0.0140	0.3503	1.3000e-003	0.2012	3.9000e-004	0.2016	0.0534	3.6000e-004	0.0537		146.3585	146.3585	1.2500e-003	2.4300e-003	147.1133

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	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844	0.0000	1,211.7777	1,211.7777	0.0538		1,213.1222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844	0.0000	1,211.7777	1,211.7777	0.0538		1,213.1222

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0254	0.0140	0.3503	1.3000e-003	0.1855	3.9000e-004	0.1858	0.0495	3.6000e-004	0.0499		146.3585	146.3585	1.2500e-003	2.4300e-003	147.1133
Total	0.0254	0.0140	0.3503	1.3000e-003	0.1855	3.9000e-004	0.1858	0.0495	3.6000e-004	0.0499		146.3585	146.3585	1.2500e-003	2.4300e-003	147.1133

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2042
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	40.3260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	40.4409	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	7.0200e-003	0.1751	6.5000e-004	0.1006	1.9000e-004	0.1008	0.0267	1.8000e-004	0.0269		73.1793	73.1793	6.3000e-004	1.2100e-003	73.5566
Total	0.0127	7.0200e-003	0.1751	6.5000e-004	0.1006	1.9000e-004	0.1008	0.0267	1.8000e-004	0.0269		73.1793	73.1793	6.3000e-004	1.2100e-003	73.5566

Mitigated Construction On-Site

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	40.3260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	40.4409	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	7.0200e-003	0.1751	6.5000e-004	0.0927	1.9000e-004	0.0929	0.0248	1.8000e-004	0.0249		73.1793	73.1793	6.3000e-004	1.2100e-003	73.5566
Total	0.0127	7.0200e-003	0.1751	6.5000e-004	0.0927	1.9000e-004	0.0929	0.0248	1.8000e-004	0.0249		73.1793	73.1793	6.3000e-004	1.2100e-003	73.5566

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 4 Mitigated
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	108.75	1000sqft	0.73	108,754.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2045

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT - See Construction Phase 4 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Demolition -
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	2.50	0.73
tblTripsAndVMT	HaulingTripNumber	131.00	132.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2042	40.4536	4.6310	8.1423	0.0201	5.4270	0.0848	5.4907	2.5996	0.0848	2.6633	0.0000	1,998.0224	1,998.0224	0.0681	0.1064	2,031.4422
Maximum	40.4536	4.6310	8.1423	0.0201	5.4270	0.0848	5.4907	2.5996	0.0848	2.6633	0.0000	1,998.0224	1,998.0224	0.0681	0.1064	2,031.4422

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					
2042	40.4536	4.6310	8.1423	0.0201	2.3773	0.0848	2.4410	1.1270	0.0848	1.1907	0.0000	1,998.0224	1,998.0224	0.0681	0.1064	2,031.4422
Maximum	40.4536	4.6310	8.1423	0.0201	2.3773	0.0848	2.4410	1.1270	0.0848	1.1907	0.0000	1,998.0224	1,998.0224	0.0681	0.1064	2,031.4422

	ROG	NOx	CO	SO2	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	56.20	0.00	55.54	56.65	0.00	55.29	0.00	0.00	0.00	0.00	0.00	0.00

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2/3/2042	2/14/2042	5	10	
2	Site Preparation	Site Preparation	2/15/2042	2/17/2042	5	1	
3	Grading	Grading	2/18/2042	2/19/2042	5	2	
4	Building Construction	Building Construction	2/20/2042	7/9/2042	5	100	
5	Paving	Paving	7/10/2042	7/16/2042	5	5	
6	Architectural Coating	Architectural Coating	7/17/2042	7/23/2042	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 163,131; Non-Residential Outdoor: 54,377; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	4	10.00	4.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	46.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8418	0.0000	2.8418	0.4303	0.0000	0.4303			0.0000			0.0000
Off-Road	0.4996	3.0819	7.4089	0.0133		0.0355	0.0355		0.0355	0.0355		1,256.0421	1,256.0421	0.0434		1,257.1273
Total	0.4996	3.0819	7.4089	0.0133	2.8418	0.0355	2.8773	0.4303	0.0355	0.4658		1,256.0421	1,256.0421	0.0434		1,257.1273

Unmitigated Construction Off-Site

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0275	1.3996	0.4423	5.6100e-003	0.2311	0.0137	0.2448	0.0634	0.0131	0.0765		607.9757	607.9757	0.0227	0.0962	637.2132
Vendor	3.7900e-003	0.1413	0.0558	5.6000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		60.2753	60.2753	1.3400e-003	8.8300e-003	62.9408
Worker	0.0142	8.1600e-003	0.1611	6.5000e-004	0.1118	2.1000e-004	0.1120	0.0296	2.0000e-004	0.0298		73.7293	73.7293	7.2000e-004	1.3900e-003	74.1609
Total	0.0454	1.5491	0.6592	6.8200e-003	0.3685	0.0149	0.3834	0.1004	0.0142	0.1146		741.9803	741.9803	0.0247	0.1064	774.3148

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2149	0.0000	1.2149	0.1839	0.0000	0.1839			0.0000			0.0000
Off-Road	0.4996	3.0819	7.4089	0.0133		0.0355	0.0355		0.0355	0.0355	0.0000	1,256.0421	1,256.0421	0.0434		1,257.1273
Total	0.4996	3.0819	7.4089	0.0133	1.2149	0.0355	1.2504	0.1839	0.0355	0.2194	0.0000	1,256.0421	1,256.0421	0.0434		1,257.1273

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					

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0275	1.3996	0.4423	5.6100e-003	0.2154	0.0137	0.2291	0.0595	0.0131	0.0726		607.9757	607.9757	0.0227	0.0962	637.2132
Vendor	3.7900e-003	0.1413	0.0558	5.6000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.2000e-004	7.9000e-003		60.2753	60.2753	1.3400e-003	8.8300e-003	62.9408
Worker	0.0142	8.1600e-003	0.1611	6.5000e-004	0.1030	2.1000e-004	0.1033	0.0275	2.0000e-004	0.0277		73.7293	73.7293	7.2000e-004	1.3900e-003	74.1609
Total	0.0454	1.5491	0.6592	6.8200e-003	0.3424	0.0149	0.3573	0.0940	0.0142	0.1082		741.9803	741.9803	0.0247	0.1064	774.3148

3.3 Site Preparation - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4150	1.4268	3.8760	0.0119		0.0277	0.0277		0.0277	0.0277		1,128.1977	1,128.1977	0.0369		1,129.1206
Total	0.4150	1.4268	3.8760	0.0119	0.5303	0.0277	0.5580	0.0573	0.0277	0.0850		1,128.1977	1,128.1977	0.0369		1,129.1206

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	0.0000
Vendor	1.8900e-003	0.0707	0.0279	2.8000e-004	0.0128	4.8000e-004	0.0133	3.6900e-003	4.6000e-004	4.1500e-003		30.1377	30.1377	6.7000e-004	4.4200e-003	31.4704
Worker	7.0800e-003	4.0800e-003	0.0806	3.3000e-004	0.0559	1.1000e-004	0.0560	0.0148	1.0000e-004	0.0149		36.8647	36.8647	3.6000e-004	6.9000e-004	37.0804

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	8.9700e-003	0.0747	0.1084	6.1000e-004	0.0687	5.9000e-004	0.0693	0.0185	5.6000e-004	0.0191		67.0023	67.0023	1.0300e-003	5.1100e-003	68.5508
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.4150	1.4268	3.8760	0.0119		0.0277	0.0277		0.0277	0.0277	0.0000	1,128.1977	1,128.1977	0.0369		1,129.1206
Total	0.4150	1.4268	3.8760	0.0119	0.2267	0.0277	0.2544	0.0245	0.0277	0.0522	0.0000	1,128.1977	1,128.1977	0.0369		1,129.1206

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	0.0000
Vendor	1.8900e-003	0.0707	0.0279	2.8000e-004	0.0120	4.8000e-004	0.0125	3.4900e-003	4.6000e-004	3.9500e-003		30.1377	30.1377	6.7000e-004	4.4200e-003	31.4704
Worker	7.0800e-003	4.0800e-003	0.0806	3.3000e-004	0.0515	1.1000e-004	0.0516	0.0138	1.0000e-004	0.0139		36.8647	36.8647	3.6000e-004	6.9000e-004	37.0804
Total	8.9700e-003	0.0747	0.1084	6.1000e-004	0.0635	5.9000e-004	0.0641	0.0172	5.6000e-004	0.0178		67.0023	67.0023	1.0300e-003	5.1100e-003	68.5508

3.4 Grading - 2042

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.6620	2.2462	4.8010	0.0173		0.0626	0.0626		0.0626	0.0626		1,633.8245	1,633.8245	0.0582		1,635.2789
Total	0.6620	2.2462	4.8010	0.0173	5.3119	0.0626	5.3745	2.5686	0.0626	2.6311		1,633.8245	1,633.8245	0.0582		1,635.2789

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	0.0000
Vendor	3.7900e-003	0.1413	0.0558	5.6000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		60.2753	60.2753	1.3400e-003	8.8300e-003	62.9408
Worker	0.0113	6.5300e-003	0.1289	5.2000e-004	0.0894	1.7000e-004	0.0896	0.0237	1.6000e-004	0.0239		58.9834	58.9834	5.7000e-004	1.1100e-003	59.3287
Total	0.0151	0.1479	0.1846	1.0800e-003	0.1150	1.1400e-003	0.1162	0.0311	1.0800e-003	0.0322		119.2588	119.2588	1.9100e-003	9.9400e-003	122.2695

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

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					2.2709	0.0000	2.2709	1.0981	0.0000	1.0981			0.0000		0.0000
Off-Road	0.6620	2.2462	4.8010	0.0173		0.0626	0.0626		0.0626	0.0626	0.0000	1,633.8245	1,633.8245	0.0582	1,635.2789
Total	0.6620	2.2462	4.8010	0.0173	2.2709	0.0626	2.3334	1.0981	0.0626	1.1606	0.0000	1,633.8245	1,633.8245	0.0582	1,635.2789

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	0.0000
Vendor	3.7900e-003	0.1413	0.0558	5.6000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.2000e-004	7.9000e-003		60.2753	60.2753	1.3400e-003	8.8300e-003	62.9408
Worker	0.0113	6.5300e-003	0.1289	5.2000e-004	0.0824	1.7000e-004	0.0826	0.0220	1.6000e-004	0.0222		58.9834	58.9834	5.7000e-004	1.1100e-003	59.3287
Total	0.0151	0.1479	0.1846	1.0800e-003	0.1064	1.1400e-003	0.1076	0.0290	1.0800e-003	0.0301		119.2588	119.2588	1.9100e-003	9.9400e-003	122.2695

3.5 Building Construction - 2042

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	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355		1,322.7958	1,322.7958	0.0492		1,324.0257
Total	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355		1,322.7958	1,322.7958	0.0492		1,324.0257

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0170	0.6360	0.2509	2.5400e-003	0.1153	4.3400e-003	0.1197	0.0332	4.1600e-003	0.0374		271.2390	271.2390	6.0100e-003	0.0398	283.2335
Worker	0.0651	0.0375	0.7410	3.0100e-003	0.5142	9.9000e-004	0.5152	0.1364	9.1000e-004	0.1373		339.1547	339.1547	3.3000e-003	6.3900e-003	341.1400
Total	0.0822	0.6735	0.9919	5.5500e-003	0.6295	5.3300e-003	0.6348	0.1696	5.0700e-003	0.1746		610.3938	610.3938	9.3100e-003	0.0461	624.3736

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	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355	0.0000	1,322.7958	1,322.7958	0.0492		1,324.0257
Total	0.5667	2.7853	7.1504	0.0140		0.0355	0.0355		0.0355	0.0355	0.0000	1,322.7958	1,322.7958	0.0492		1,324.0257

Mitigated Construction Off-Site

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000
Vendor	0.0170	0.6360	0.2509	2.5400e-003	0.1079	4.3400e-003	0.1123	0.0314	4.1600e-003	0.0355		271.2390	271.2390	6.0100e-003	0.0398	283.2335
Worker	0.0651	0.0375	0.7410	3.0100e-003	0.4739	9.9000e-004	0.4749	0.1265	9.1000e-004	0.1274		339.1547	339.1547	3.3000e-003	6.3900e-003	341.1400
Total	0.0822	0.6735	0.9919	5.5500e-003	0.5819	5.3300e-003	0.5872	0.1579	5.0700e-003	0.1629		610.3938	610.3938	9.3100e-003	0.0461	624.3736

3.6 Paving - 2042

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	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844		1,211.7777	1,211.7777	0.0538		1,213.1222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844		1,211.7777	1,211.7777	0.0538		1,213.1222

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	0.0000

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0255	0.0147	0.2900	1.1800e-003	0.2012	3.9000e-004	0.2016	0.0534	3.6000e-004	0.0537		132.7127	132.7127	1.2900e-003	2.5000e-003	133.4896
Total	0.0255	0.0147	0.2900	1.1800e-003	0.2012	3.9000e-004	0.2016	0.0534	3.6000e-004	0.0537		132.7127	132.7127	1.2900e-003	2.5000e-003	133.4896

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	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844	0.0000	1,211.7777	1,211.7777	0.0538		1,213.1222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6090	3.1337	7.4736	0.0133		0.0844	0.0844		0.0844	0.0844	0.0000	1,211.7777	1,211.7777	0.0538		1,213.1222

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0255	0.0147	0.2900	1.1800e-003	0.1855	3.9000e-004	0.1858	0.0495	3.6000e-004	0.0499		132.7127	132.7127	1.2900e-003	2.5000e-003	133.4896
Total	0.0255	0.0147	0.2900	1.1800e-003	0.1855	3.9000e-004	0.1858	0.0495	3.6000e-004	0.0499		132.7127	132.7127	1.2900e-003	2.5000e-003	133.4896

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2042
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	40.3260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	40.4409	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	7.3400e-003	0.1450	5.9000e-004	0.1006	1.9000e-004	0.1008	0.0267	1.8000e-004	0.0269		66.3564	66.3564	6.4000e-004	1.2500e-003	66.7448
Total	0.0127	7.3400e-003	0.1450	5.9000e-004	0.1006	1.9000e-004	0.1008	0.0267	1.8000e-004	0.0269		66.3564	66.3564	6.4000e-004	1.2500e-003	66.7448

Mitigated Construction On-Site

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	40.3260					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	40.4409	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	7.3400e-003	0.1450	5.9000e-004	0.0927	1.9000e-004	0.0929	0.0248	1.8000e-004	0.0249		66.3564	66.3564	6.4000e-004	1.2500e-003	66.7448
Total	0.0127	7.3400e-003	0.1450	5.9000e-004	0.0927	1.9000e-004	0.0929	0.0248	1.8000e-004	0.0249		66.3564	66.3564	6.4000e-004	1.2500e-003	66.7448

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 4 Mitigated
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	108.75	1000sqft	0.73	108,754.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2045

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT - See Construction Phase 4 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Demolition -
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	2.50	0.73
tblTripsAndVMT	HaulingTripNumber	131.00	132.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2042	0.1385	0.2089	0.4803	1.1500e-003	0.0534	2.6000e-003	0.0560	0.0138	2.5800e-003	0.0164	0.0000	103.0184	103.0184	3.1900e-003	2.6000e-003	103.8733
Maximum	0.1385	0.2089	0.4803	1.1500e-003	0.0534	2.6000e-003	0.0560	0.0138	2.5800e-003	0.0164	0.0000	103.0184	103.0184	3.1900e-003	2.6000e-003	103.8733

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					
2042	0.1385	0.2089	0.4803	1.1500e-003	0.0395	2.6000e-003	0.0421	0.0105	2.5800e-003	0.0131	0.0000	103.0183	103.0183	3.1900e-003	2.6000e-003	103.8732
Maximum	0.1385	0.2089	0.4803	1.1500e-003	0.0395	2.6000e-003	0.0421	0.0105	2.5800e-003	0.0131	0.0000	103.0183	103.0183	3.1900e-003	2.6000e-003	103.8732

	ROG	NOx	CO	SO2	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	25.95	0.00	24.74	24.11	0.00	20.37	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)

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1	2-3-2042	5-2-2042	0.1317	0.1317
2	5-3-2042	8-2-2042	0.2113	0.2113
		Highest	0.2113	0.2113

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	2/3/2042	2/14/2042	5	10	
2	Site Preparation	Site Preparation	2/15/2042	2/17/2042	5	1	
3	Grading	Grading	2/18/2042	2/19/2042	5	2	
4	Building Construction	Building Construction	2/20/2042	7/9/2042	5	100	
5	Paving	Paving	7/10/2042	7/16/2042	5	5	
6	Architectural Coating	Architectural Coating	7/17/2042	7/23/2042	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 163,131; Non-Residential Outdoor: 54,377; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	4.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	46.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2042

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	2.1500e-003	0.0000	2.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-003	0.0154	0.0370	7.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	5.6973	5.6973	2.0000e-004	0.0000	5.7022

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	2.5000e-003	0.0154	0.0370	7.0000e-005	0.0142	1.8000e-004	0.0144	2.1500e-003	1.8000e-004	2.3300e-003	0.0000	5.6973	5.6973	2.0000e-004	0.0000	5.7022
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	7.0100e-003	2.1900e-003	3.0000e-005	1.1400e-003	7.0000e-005	1.2000e-003	3.1000e-004	7.0000e-005	3.8000e-004	0.0000	2.7550	2.7550	1.0000e-004	4.4000e-004	2.8875
Vendor	2.0000e-005	7.0000e-004	2.7000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2730	0.2730	1.0000e-005	4.0000e-005	0.2851
Worker	6.0000e-005	4.0000e-005	8.4000e-004	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3410	0.3410	0.0000	1.0000e-005	0.3430
Total	2.2000e-004	7.7500e-003	3.3000e-003	3.0000e-005	1.8200e-003	7.0000e-005	1.8800e-003	5.0000e-004	7.0000e-005	5.7000e-004	0.0000	3.3690	3.3690	1.1000e-004	4.9000e-004	3.5156

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					6.0700e-003	0.0000	6.0700e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-003	0.0154	0.0370	7.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	5.6973	5.6973	2.0000e-004	0.0000	5.7022
Total	2.5000e-003	0.0154	0.0370	7.0000e-005	6.0700e-003	1.8000e-004	6.2500e-003	9.2000e-004	1.8000e-004	1.1000e-003	0.0000	5.6973	5.6973	2.0000e-004	0.0000	5.7022

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	7.0100e-003	2.1900e-003	3.0000e-005	1.0600e-003	7.0000e-005	1.1300e-003	2.9000e-004	7.0000e-005	3.6000e-004	0.0000	2.7550	2.7550	1.0000e-004	4.4000e-004	2.8875
Vendor	2.0000e-005	7.0000e-004	2.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.2730	0.2730	1.0000e-005	4.0000e-005	0.2851
Worker	6.0000e-005	4.0000e-005	8.4000e-004	0.0000	5.1000e-004	0.0000	5.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.3410	0.3410	0.0000	1.0000e-005	0.3430
Total	2.2000e-004	7.7500e-003	3.3000e-003	3.0000e-005	1.6900e-003	7.0000e-005	1.7600e-003	4.6000e-004	7.0000e-005	5.4000e-004	0.0000	3.3690	3.3690	1.1000e-004	4.9000e-004	3.5156

3.3 Site Preparation - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	7.1000e-004	1.9400e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122
Total	2.1000e-004	7.1000e-004	1.9400e-003	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0137	0.0137	0.0000	0.0000	0.0143
Worker	0.0000	0.0000	4.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0171	0.0171	0.0000	0.0000	0.0172
Total	0.0000	4.0000e-005	5.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0307	0.0307	0.0000	0.0000	0.0314

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	7.1000e-004	1.9400e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122
Total	2.1000e-004	7.1000e-004	1.9400e-003	1.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.5117	0.5117	2.0000e-005	0.0000	0.5122

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	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0137	0.0137	0.0000	0.0000	0.0143

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0000	0.0000	4.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0171	0.0171	0.0000	0.0000	0.0172
Total	0.0000	4.0000e-005	5.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0307	0.0307	0.0000	0.0000	0.0314

3.4 Grading - 2042

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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-004	2.2500e-003	4.8000e-003	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.4822	1.4822	5.0000e-005	0.0000	1.4835
Total	6.6000e-004	2.2500e-003	4.8000e-003	2.0000e-005	5.3100e-003	6.0000e-005	5.3700e-003	2.5700e-003	6.0000e-005	2.6300e-003	0.0000	1.4822	1.4822	5.0000e-005	0.0000	1.4835

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	1.4000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0546	0.0546	0.0000	1.0000e-005	0.0570
Worker	1.0000e-005	1.0000e-005	1.4000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0546	0.0546	0.0000	0.0000	0.0549
Total	1.0000e-005	1.5000e-004	1.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1092	0.1092	0.0000	1.0000e-005	0.1119

**Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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					2.2700e-003	0.0000	2.2700e-003	1.1000e-003	0.0000	1.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-004	2.2500e-003	4.8000e-003	2.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.4822	1.4822	5.0000e-005	0.0000	1.4835
Total	6.6000e-004	2.2500e-003	4.8000e-003	2.0000e-005	2.2700e-003	6.0000e-005	2.3300e-003	1.1000e-003	6.0000e-005	1.1600e-003	0.0000	1.4822	1.4822	5.0000e-005	0.0000	1.4835

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	1.4000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0546	0.0546	0.0000	1.0000e-005	0.0570
Worker	1.0000e-005	1.0000e-005	1.4000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0546	0.0546	0.0000	0.0000	0.0549
Total	1.0000e-005	1.5000e-004	1.9000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1092	0.1092	0.0000	1.0000e-005	0.1119

3.5 Building Construction - 2042

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
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Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Off-Road	0.0283	0.1393	0.3575	7.0000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	60.0010	60.0010	2.2300e-003	0.0000	60.0568
Total	0.0283	0.1393	0.3575	7.0000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	60.0010	60.0010	2.2300e-003	0.0000	60.0568

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	8.9000e-004	0.0316	0.0123	1.3000e-004	5.6800e-003	2.2000e-004	5.8900e-003	1.6400e-003	2.1000e-004	1.8500e-003	0.0000	12.2843	12.2843	2.7000e-004	1.8000e-003	12.8276
Worker	2.9700e-003	1.9600e-003	0.0389	1.5000e-004	0.0252	5.0000e-005	0.0253	6.7000e-003	5.0000e-005	6.7400e-003	0.0000	15.6861	15.6861	1.5000e-004	3.0000e-004	15.7789
Total	3.8600e-003	0.0336	0.0512	2.8000e-004	0.0309	2.7000e-004	0.0312	8.3400e-003	2.6000e-004	8.5900e-003	0.0000	27.9703	27.9703	4.2000e-004	2.1000e-003	28.6064

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	0.0283	0.1393	0.3575	7.0000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	60.0009	60.0009	2.2300e-003	0.0000	60.0567
Total	0.0283	0.1393	0.3575	7.0000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	60.0009	60.0009	2.2300e-003	0.0000	60.0567

**Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	8.9000e-004	0.0316	0.0123	1.3000e-004	5.3100e-003	2.2000e-004	5.5300e-003	1.5500e-003	2.1000e-004	1.7600e-003	0.0000	12.2843	12.2843	2.7000e-004	1.8000e-003	12.8276
Worker	2.9700e-003	1.9600e-003	0.0389	1.5000e-004	0.0233	5.0000e-005	0.0233	6.2100e-003	5.0000e-005	6.2600e-003	0.0000	15.6861	15.6861	1.5000e-004	3.0000e-004	15.7789
Total	3.8600e-003	0.0336	0.0512	2.8000e-004	0.0286	2.7000e-004	0.0288	7.7600e-003	2.6000e-004	8.0200e-003	0.0000	27.9703	27.9703	4.2000e-004	2.1000e-003	28.6064

3.6 Paving - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	7.8300e-003	0.0187	3.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	2.7483	2.7483	1.2000e-004	0.0000	2.7513
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5200e-003	7.8300e-003	0.0187	3.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	2.7483	2.7483	1.2000e-004	0.0000	2.7513

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	6.0000e-005	4.0000e-005	7.6000e-004	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3069	0.3069	0.0000	1.0000e-005	0.3087
Total	6.0000e-005	4.0000e-005	7.6000e-004	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3069	0.3069	0.0000	1.0000e-005	0.3087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5200e-003	7.8300e-003	0.0187	3.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	2.7483	2.7483	1.2000e-004	0.0000	2.7513
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5200e-003	7.8300e-003	0.0187	3.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	2.7483	2.7483	1.2000e-004	0.0000	2.7513

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

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	6.0000e-005	4.0000e-005	7.6000e-004	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3069	0.3069	0.0000	1.0000e-005	0.3087
Total	6.0000e-005	4.0000e-005	7.6000e-004	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3069	0.3069	0.0000	1.0000e-005	0.3087

3.7 Architectural Coating - 2042

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	0.1008					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8200e-003	4.4800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389
Total	0.1011	1.8200e-003	4.4800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	3.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1535	0.1535	0.0000	0.0000	0.1544
Total	3.0000e-005	2.0000e-005	3.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1535	0.1535	0.0000	0.0000	0.1544

Construction Phase 4 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.1008					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	1.8200e-003	4.4800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389
Total	0.1011	1.8200e-003	4.4800e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6389

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	3.8000e-004	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1535	0.1535	0.0000	0.0000	0.1544
Total	3.0000e-005	2.0000e-005	3.8000e-004	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1535	0.1535	0.0000	0.0000	0.1544

Construction Phase 4 Mitigated
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	7	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	2.90000E-004	1.82000E-003	4.48000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.38310E-001	6.38310E-001	2.00000E-005	0.00000E+000	6.38880E-001

Construction Phase 4 Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Cement and Mortar	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Mixers												
Concrete/Industrial	1.02000E-003	7.48000E-003	1.81300E-002	3.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	2.68828E+000	2.68828E+000	8.00000E-005	0.00000E+000	2.69029E+000
Saws												
Cranes	5.76000E-003	1.01600E-002	3.37900E-002	1.80000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.52281E+001	1.52281E+001	4.60000E-004	0.00000E+000	1.52395E+001
Forklifts	6.50000E-003	3.51100E-002	8.93300E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Graders	3.20000E-004	6.10000E-004	1.92000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	8.71430E-001	8.71430E-001	3.00000E-005	0.00000E+000	8.72080E-001
Pavers	4.50000E-004	1.23000E-003	6.99000E-003	1.00000E-005	6.00000E-005	6.00000E-005	0.00000E+000	1.08602E+000	1.08602E+000	4.00000E-005	0.00000E+000	1.08693E+000
Rollers	2.80000E-004	1.79000E-003	4.25000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.04670E-001	6.04670E-001	2.00000E-005	0.00000E+000	6.05230E-001
Rubber Tired Dozers	6.10000E-004	1.94000E-003	2.94000E-003	1.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	1.23525E+000	1.23525E+000	5.00000E-005	0.00000E+000	1.23645E+000
Tractors/Loaders/Bulldozers	1.78600E-002	1.04400E-001	2.60330E-001	4.20000E-004	1.12000E-003	1.12000E-003	0.00000E+000	3.62441E+001	3.62441E+001	1.40000E-003	0.00000E+000	3.62792E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Air Compressors	2.90000E-004	1.82000E-003	4.48000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.38310E-001	6.38310E-001	2.00000E-005	0.00000E+000	6.38870E-001
Cement and Mortar	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Mixers												
Concrete/Industrial	1.02000E-003	7.48000E-003	1.81300E-002	3.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	2.68828E+000	2.68828E+000	8.00000E-005	0.00000E+000	2.69029E+000
Saws												
Cranes	5.76000E-003	1.01600E-002	3.37900E-002	1.80000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.52281E+001	1.52281E+001	4.60000E-004	0.00000E+000	1.52395E+001
Forklifts	6.50000E-003	3.51100E-002	8.93300E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Graders	3.20000E-004	6.10000E-004	1.92000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	8.71430E-001	8.71430E-001	3.00000E-005	0.00000E+000	8.72080E-001
Pavers	4.50000E-004	1.23000E-003	6.99000E-003	1.00000E-005	6.00000E-005	6.00000E-005	0.00000E+000	1.08602E+000	1.08602E+000	4.00000E-005	0.00000E+000	1.08693E+000
Rollers	2.80000E-004	1.79000E-003	4.25000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	6.04670E-001	6.04670E-001	2.00000E-005	0.00000E+000	6.05230E-001
Rubber Tired Dozers	6.10000E-004	1.94000E-003	2.94000E-003	1.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	1.23525E+000	1.23525E+000	5.00000E-005	0.00000E+000	1.23645E+000
Tractors/Loaders/Bulldozers	1.78600E-002	1.04400E-001	2.60330E-001	4.20000E-004	1.12000E-003	1.12000E-003	0.00000E+000	3.62441E+001	3.62441E+001	1.40000E-003	0.00000E+000	3.62792E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.56524E-005
Cement and Mortar	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Mixers												
Concrete/Industrial	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Saws												
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31336E-006	1.31336E-006	0.00000E+000	0.00000E+000	1.31238E-006

Construction Phase 4 Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.64760E-006	1.64760E-006	0.00000E+000	0.00000E+000	8.22931E-007
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Bac khnes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10363E-006	1.10363E-006	0.00000E+000	0.00000E+000	1.37820E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00
Yes	Clean Paved Road	% PM Reduction	9.00		
				Frequency (per day)	2.00

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.08	0.14
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.03	0.01	0.03	0.01	0.08	0.07
Demolition	Fugitive Dust	0.01	0.00	0.01	0.00	0.57	0.57
Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.08
Grading	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.17	0.00

Construction Phase 4 Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.59	0.67
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

CalEEMod Output: Phase 5 Construction

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Construction Phase 5 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 5
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	158.67	1000sqft	1.52	158,666.00	0
Other Non-Asphalt Surfaces	687.07	1000sqft	15.77	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 32
 Climate Zone 10 Operational Year 2050

Utility Company

CO2 Intensity 0 CH4 Intensity 0 N2O Intensity 0
 (lb/MW hr) (lb/MW hr) (lb/MW hr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the College District.

Trips and VMT - See Construction Phase 5 assumptions worksheet in the AQ/GHG appendix of the DEIR.

Demolition -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LandUseSquareFeet	687,073.00	0.00
tblLandUse	LotAcreage	3.64	1.52
tblTripsAndVMT	HaulingTripNumber	362.00	364.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2049	2.7656	8.2746	22.9024	0.0736	19.9095	0.2293	20.1143	10.1706	0.2291	10.3753	0.0000	7,609.3956	7,609.3956	0.2434	0.1404	7,626.5556
2050	73.6720	7.8087	17.7061	0.0392	0.9155	0.1167	0.9966	0.2466	0.1167	0.3274	0.0000	3,813.4276	3,813.4276	0.1160	0.0646	3,835.5850
Maximum	73.6720	8.2746	22.9024	0.0736	19.9095	0.2293	20.1143	10.1706	0.2291	10.3753	0.0000	7,609.3956	7,609.3956	0.2434	0.1404	7,626.5556

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					
2049	2.7656	8.2746	22.9024	0.0736	8.6368	0.2293	8.8416	4.3822	0.2291	4.5870	0.0000	7,609.3956	7,609.3956	0.2434	0.1404	7,626.5556
2050	73.6720	7.8087	17.7061	0.0392	0.8462	0.1167	0.9274	0.2296	0.1167	0.3104	0.0000	3,813.4276	3,813.4276	0.1160	0.0646	3,835.5850
Maximum	73.6720	8.2746	22.9024	0.0736	8.6368	0.2293	8.8416	4.3822	0.2291	4.5870	0.0000	7,609.3956	7,609.3956	0.2434	0.1404	7,626.5556

	ROG	NOx	CO	SO2	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	54.46	0.00	53.73	55.73	0.00	54.24	0.00	0.00	0.00	0.00	0.00	0.00

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1/1/2049	1/28/2049	5	20	
2	Site Preparation	Site Preparation	1/29/2049	2/11/2049	5	10	
3	Grading	Grading	2/12/2049	3/25/2049	5	30	
4	Building Construction	Building Construction	3/26/2049	5/19/2050	5	300	
5	Paving	Paving	5/20/2050	6/16/2050	5	20	
6	Architectural Coating	Architectural Coating	6/17/2050	7/14/2050	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 15.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 237,999; Non-Residential Outdoor: 79,333; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Grading	Scrapers	2	8.00	367	0.48

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	364.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	67.00	26.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2049

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					3.9203	0.0000	3.9203	0.5936	0.0000	0.5936			0.0000			0.0000
Off-Road	1.6982	5.3064	18.5788	0.0462		0.1629	0.1629		0.1629	0.1629		4,378.5819	4,378.5819	0.1484		4,382.2921
Total	1.6982	5.3064	18.5788	0.0462	3.9203	0.1629	4.0832	0.5936	0.1629	0.7565		4,378.5819	4,378.5819	0.1484		4,382.2921

**Construction Phase 5 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	0.0412	1.8282	0.5988	7.5800e-003	0.3187	0.0189	0.3375	0.0874	0.0181	0.1054		820.1031	820.1031	0.0296	0.1297	859.5043
Vendor	4.1400e-003	0.1335	0.0540	5.5000e-004	0.0256	9.6000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		58.9269	58.9269	1.2800e-003	8.6300e-003	61.5304
Worker	0.0187	0.0111	0.2805	1.0600e-003	0.1677	2.8000e-004	0.1680	0.0445	2.6000e-004	0.0447		120.4346	120.4346	9.2000e-004	1.9900e-003	121.0498
Total	0.0641	1.9728	0.9333	9.1900e-003	0.5119	0.0201	0.5321	0.1392	0.0193	0.1585		999.4646	999.4646	0.0318	0.1404	1,042.0845

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6759	0.0000	1.6759	0.2538	0.0000	0.2538			0.0000			0.0000
Off-Road	1.6982	5.3064	18.5788	0.0462		0.1629	0.1629		0.1629	0.1629	0.0000	4,378.5819	4,378.5819	0.1484		4,382.2920
Total	1.6982	5.3064	18.5788	0.0462	1.6759	0.1629	1.8388	0.2538	0.1629	0.4166	0.0000	4,378.5819	4,378.5819	0.1484		4,382.2920

Mitigated Construction Off-Site

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0412	1.8282	0.5988	7.5800e-003	0.2970	0.0189	0.3159	0.0821	0.0181	0.1001		820.1031	820.1031	0.0296	0.1297	859.5043
Vendor	4.1400e-003	0.1335	0.0540	5.5000e-004	0.0240	9.6000e-004	0.0249	6.9800e-003	9.2000e-004	7.9000e-003		58.9269	58.9269	1.2800e-003	8.6300e-003	61.5304
Worker	0.0187	0.0111	0.2805	1.0600e-003	0.1546	2.8000e-004	0.1548	0.0413	2.6000e-004	0.0415		120.4346	120.4346	9.2000e-004	1.9900e-003	121.0498
Total	0.0641	1.9728	0.9333	9.1900e-003	0.4755	0.0201	0.4957	0.1303	0.0193	0.1495		999.4646	999.4646	0.0318	0.1404	1,042.0845

3.3 Site Preparation - 2049

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	1.9657	7.9943	15.7797	0.0466		0.2026	0.2026		0.2026	0.2026		4,409.7537	4,409.7537	0.1707		4,414.0214
Total	1.9657	7.9943	15.7797	0.0466	19.6570	0.2026	19.8596	10.1025	0.2026	10.3050		4,409.7537	4,409.7537	0.1707		4,414.0214

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					

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	8.2900e-003	0.2670	0.1081	1.1000e-003	0.0513	1.9200e-003	0.0532	0.0148	1.8400e-003	0.0166		117.8538	117.8538	2.5700e-003	0.0173	123.0608
Worker	0.0225	0.0133	0.3366	1.2700e-003	0.2012	3.4000e-004	0.2015	0.0534	3.1000e-004	0.0537		144.5215	144.5215	1.1000e-003	2.3800e-003	145.2598
Total	0.0307	0.2803	0.4447	2.3700e-003	0.2525	2.2600e-003	0.2547	0.0681	2.1500e-003	0.0703		262.3753	262.3753	3.6700e-003	0.0196	268.3206

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	1.9657	7.9943	15.7797	0.0466		0.2026	0.2026		0.2026	0.2026	0.0000	4,409.7537	4,409.7537	0.1707		4,414.0214
Total	1.9657	7.9943	15.7797	0.0466	8.4034	0.2026	8.6059	4.3188	0.2026	4.5214	0.0000	4,409.7537	4,409.7537	0.1707		4,414.0214

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	0.0000
Vendor	8.2900e-003	0.2670	0.1081	1.1000e-003	0.0480	1.9200e-003	0.0499	0.0140	1.8400e-003	0.0158		117.8538	117.8538	2.5700e-003	0.0173	123.0608
Worker	0.0225	0.0133	0.3366	1.2700e-003	0.1855	3.4000e-004	0.1858	0.0495	3.1000e-004	0.0498		144.5215	144.5215	1.1000e-003	2.3800e-003	145.2598

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0307	0.2803	0.4447	2.3700e-003	0.2334	2.2600e-003	0.2357	0.0634	2.1500e-003	0.0656		262.3753	262.3753	3.6700e-003	0.0196	268.3206
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3.4 Grading - 2049

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.7241	7.3885	22.3122	0.0699		0.2250	0.2250		0.2250	0.2250		7,213.1086	7,213.1086	0.2370		7,219.0343
Total	2.7241	7.3885	22.3122	0.0699	9.2036	0.2250	9.4286	3.6538	0.2250	3.8788		7,213.1086	7,213.1086	0.2370		7,219.0343

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	0.0000
Vendor	0.0166	0.5339	0.2162	2.2100e-003	0.1025	3.8500e-003	0.1064	0.0295	3.6800e-003	0.0332		235.7076	235.7076	5.1400e-003	0.0345	246.1216
Worker	0.0249	0.0148	0.3740	1.4100e-003	0.2236	3.8000e-004	0.2239	0.0593	3.5000e-004	0.0596		160.5795	160.5795	1.2300e-003	2.6500e-003	161.3998
Total	0.0415	0.5488	0.5902	3.6200e-003	0.3261	4.2300e-003	0.3303	0.0888	4.0300e-003	0.0928		396.2871	396.2871	6.3700e-003	0.0372	407.5214

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.7241	7.3885	22.3122	0.0699		0.2250	0.2250		0.2250	0.2250	0.0000	7,213.1086	7,213.1086	0.2370		7,219.0343
Total	2.7241	7.3885	22.3122	0.0699	3.9345	0.2250	4.1596	1.5620	0.2250	1.7870	0.0000	7,213.1086	7,213.1086	0.2370		7,219.0343

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	0.0000
Vendor	0.0166	0.5339	0.2162	2.2100e-003	0.0959	3.8500e-003	0.0998	0.0279	3.6800e-003	0.0316		235.7076	235.7076	5.1400e-003	0.0345	246.1216
Worker	0.0249	0.0148	0.3740	1.4100e-003	0.2061	3.8000e-004	0.2064	0.0550	3.5000e-004	0.0553		160.5795	160.5795	1.2300e-003	2.6500e-003	161.3998
Total	0.0415	0.5488	0.5902	3.6200e-003	0.3020	4.2300e-003	0.3062	0.0829	4.0300e-003	0.0869		396.2871	396.2871	6.3700e-003	0.0372	407.5214

3.5 Building Construction - 2049

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
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Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.5471	2,897.5471	0.1041		2,900.1503
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.5471	2,897.5471	0.1041		2,900.1503

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	0.0000
Vendor	0.0269	0.8677	0.3513	3.5900e-003	0.1666	6.2500e-003	0.1728	0.0480	5.9800e-003	0.0539		383.0248	383.0248	8.3500e-003	0.0561	399.9476
Worker	0.0836	0.0497	1.2530	4.7400e-003	0.7489	1.2700e-003	0.7502	0.1986	1.1700e-003	0.1998		537.9412	537.9412	4.1100e-003	8.8800e-003	540.6892
Total	0.1105	0.9173	1.6042	8.3300e-003	0.9155	7.5200e-003	0.9230	0.2466	7.1500e-003	0.2537		920.9660	920.9660	0.0125	0.0650	940.6368

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.5471	2,897.5471	0.1041		2,900.1503
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.5471	2,897.5471	0.1041		2,900.1503

Construction Phase 5 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0269	0.8677	0.3513	3.5900e-003	0.1559	6.2500e-003	0.1621	0.0453	5.9800e-003	0.0513		383.0248	383.0248	8.3500e-003	0.0561	399.9476
Worker	0.0836	0.0497	1.2530	4.7400e-003	0.6903	1.2700e-003	0.6916	0.1842	1.1700e-003	0.1854		537.9412	537.9412	4.1100e-003	8.8800e-003	540.6892
Total	0.1105	0.9173	1.6042	8.3300e-003	0.8462	7.5200e-003	0.8537	0.2296	7.1500e-003	0.2367		920.9660	920.9660	0.0125	0.0650	940.6368

3.5 Building Construction - 2050

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.5471	2,897.5471	0.1041		2,900.1503
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.5471	2,897.5471	0.1041		2,900.1503

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0269	0.8689	0.3480	3.5700e-003	0.1666	6.2400e-003	0.1728	0.0480	5.9700e-003	0.0539	380.7191	380.7191	7.8800e-003	0.0558	397.5350	
Worker	0.0795	0.0495	1.2397	4.7000e-003	0.7489	1.2100e-003	0.7501	0.1986	1.1100e-003	0.1997	535.1615	535.1615	3.9500e-003	8.8600e-003	537.8996	
Total	0.1063	0.9184	1.5877	8.2700e-003	0.9155	7.4500e-003	0.9229	0.2466	7.0800e-003	0.2537	915.8805	915.8805	0.0118	0.0646	935.4347	

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.5471	2,897.5471	0.1041		2,900.1503
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.5471	2,897.5471	0.1041		2,900.1503

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	0.0000
Vendor	0.0269	0.8689	0.3480	3.5700e-003	0.1559	6.2400e-003	0.1621	0.0453	5.9700e-003	0.0513		380.7191	380.7191	7.8800e-003	0.0558	397.5350
Worker	0.0795	0.0495	1.2397	4.7000e-003	0.6903	1.2100e-003	0.6915	0.1842	1.1100e-003	0.1853		535.1615	535.1615	3.9500e-003	8.8600e-003	537.8996

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1063	0.9184	1.5877	8.2700e-003	0.8462	7.4500e-003	0.8536	0.2296	7.0800e-003	0.2367		915.8805	915.8805	0.0118	0.0646	935.4347
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3.6 Paving - 2050

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0178	0.0111	0.2775	1.0500e-003	0.1677	2.7000e-004	0.1679	0.0445	2.5000e-004	0.0447		119.8123	119.8123	8.8000e-004	1.9800e-003	120.4253
Total	0.0178	0.0111	0.2775	1.0500e-003	0.1677	2.7000e-004	0.1679	0.0445	2.5000e-004	0.0447		119.8123	119.8123	8.8000e-004	1.9800e-003	120.4253

Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0178	0.0111	0.2775	1.0500e-003	0.1546	2.7000e-004	0.1548	0.0413	2.5000e-004	0.0415		119.8123	119.8123	8.8000e-004	1.9800e-003	120.4253
Total	0.0178	0.0111	0.2775	1.0500e-003	0.1546	2.7000e-004	0.1548	0.0413	2.5000e-004	0.0415		119.8123	119.8123	8.8000e-004	1.9800e-003	120.4253

3.7 Architectural Coating - 2050

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
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Construction Phase 5 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Archit. Coating	73.5417					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003	281.6957
Total	73.6566	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003	281.6957

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686
Total	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686

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	73.5417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	73.6566	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

Construction Phase 5 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686
Total	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 5
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	158.67	1000sqft	1.52	158,666.00	0
Other Non-Asphalt Surfaces	687.07	1000sqft	15.77	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the College District.

Trips and VMT - See Construction Phase 5 assumptions worksheet in the AQ/GHG appendix of the DEIR.

Demolition -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LandUseSquareFeet	687,073.00	0.00
tblLandUse	LotAcreage	3.64	1.52
tblTripsAndVMT	HaulingTripNumber	362.00	364.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2049	2.7645	8.2907	22.8447	0.0734	19.9095	0.2293	20.1143	10.1706	0.2291	10.3753	0.0000	7,595.0618	7,595.0618	0.2434	0.1407	7,612.2779
2050	73.6723	7.8612	17.5025	0.0388	0.9155	0.1167	0.9967	0.2466	0.1167	0.3274	0.0000	3,764.5815	3,764.5815	0.1160	0.0651	3,786.8719
Maximum	73.6723	8.2907	22.8447	0.0734	19.9095	0.2293	20.1143	10.1706	0.2291	10.3753	0.0000	7,595.0618	7,595.0618	0.2434	0.1407	7,612.2779

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					
2049	2.7645	8.2907	22.8447	0.0734	8.6368	0.2293	8.8416	4.3822	0.2291	4.5870	0.0000	7,595.0618	7,595.0618	0.2434	0.1407	7,612.2779
2050	73.6723	7.8612	17.5025	0.0388	0.8462	0.1167	0.9274	0.2296	0.1167	0.3104	0.0000	3,764.5815	3,764.5815	0.1160	0.0651	3,786.8719
Maximum	73.6723	8.2907	22.8447	0.0734	8.6368	0.2293	8.8416	4.3822	0.2291	4.5870	0.0000	7,595.0618	7,595.0618	0.2434	0.1407	7,612.2779

	ROG	NOx	CO	SO2	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	54.46	0.00	53.73	55.73	0.00	54.24	0.00	0.00	0.00	0.00	0.00	0.00

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1/1/2049	1/28/2049	5	20	
2	Site Preparation	Site Preparation	1/29/2049	2/11/2049	5	10	
3	Grading	Grading	2/12/2049	3/25/2049	5	30	
4	Building Construction	Building Construction	3/26/2049	5/19/2050	5	300	
5	Paving	Paving	5/20/2050	6/16/2050	5	20	
6	Architectural Coating	Architectural Coating	6/17/2050	7/14/2050	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 15.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 237,999; Non-Residential Outdoor: 79,333; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Grading	Scrapers	2	8.00	367	0.48

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	364.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	67.00	26.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2049

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					3.9203	0.0000	3.9203	0.5936	0.0000	0.5936			0.0000			0.0000
Off-Road	1.6982	5.3064	18.5788	0.0462		0.1629	0.1629		0.1629	0.1629		4,378.5819	4,378.5819	0.1484		4,382.2921
Total	1.6982	5.3064	18.5788	0.0462	3.9203	0.1629	4.0832	0.5936	0.1629	0.7565		4,378.5819	4,378.5819	0.1484		4,382.2921

**Construction Phase 5 - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	0.0378	1.9297	0.6096	7.5900e-003	0.3187	0.0189	0.3376	0.0874	0.0181	0.1055		821.5031	821.5031	0.0295	0.1300	860.9664
Vendor	3.8000e-003	0.1412	0.0558	5.5000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		59.0860	59.0860	1.2700e-003	8.6600e-003	61.6975
Worker	0.0189	0.0116	0.2321	9.6000e-004	0.1677	2.8000e-004	0.1680	0.0445	2.6000e-004	0.0447		109.2070	109.2070	9.5000e-004	2.0500e-003	109.8403
Total	0.0605	2.0825	0.8975	9.1000e-003	0.5119	0.0202	0.5321	0.1392	0.0193	0.1585		989.7961	989.7961	0.0317	0.1407	1,032.5041

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6759	0.0000	1.6759	0.2538	0.0000	0.2538			0.0000			0.0000
Off-Road	1.6982	5.3064	18.5788	0.0462		0.1629	0.1629		0.1629	0.1629	0.0000	4,378.5819	4,378.5819	0.1484		4,382.2920
Total	1.6982	5.3064	18.5788	0.0462	1.6759	0.1629	1.8388	0.2538	0.1629	0.4166	0.0000	4,378.5819	4,378.5819	0.1484		4,382.2920

Mitigated Construction Off-Site

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0378	1.9297	0.6096	7.5900e-003	0.2970	0.0189	0.3159	0.0821	0.0181	0.1002		821.5031	821.5031	0.0295	0.1300	860.9664
Vendor	3.8000e-003	0.1412	0.0558	5.5000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.2000e-004	7.9000e-003		59.0860	59.0860	1.2700e-003	8.6600e-003	61.6975
Worker	0.0189	0.0116	0.2321	9.6000e-004	0.1546	2.8000e-004	0.1548	0.0413	2.6000e-004	0.0415		109.2070	109.2070	9.5000e-004	2.0500e-003	109.8403
Total	0.0605	2.0825	0.8975	9.1000e-003	0.4755	0.0202	0.4957	0.1303	0.0193	0.1496		989.7961	989.7961	0.0317	0.1407	1,032.5041

3.3 Site Preparation - 2049

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	1.9657	7.9943	15.7797	0.0466		0.2026	0.2026		0.2026	0.2026		4,409.7537	4,409.7537	0.1707		4,414.0214
Total	1.9657	7.9943	15.7797	0.0466	19.6570	0.2026	19.8596	10.1025	0.2026	10.3050		4,409.7537	4,409.7537	0.1707		4,414.0214

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					

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6000e-003	0.2824	0.1116	1.1100e-003	0.0513	1.9300e-003	0.0532	0.0148	1.8500e-003	0.0166		118.1719	118.1719	2.5300e-003	0.0173	123.3950
Worker	0.0227	0.0140	0.2785	1.1500e-003	0.2012	3.4000e-004	0.2015	0.0534	3.1000e-004	0.0537		131.0485	131.0485	1.1400e-003	2.4500e-003	131.8083
Total	0.0303	0.2964	0.3900	2.2600e-003	0.2525	2.2700e-003	0.2547	0.0681	2.1600e-003	0.0703		249.2204	249.2204	3.6700e-003	0.0198	255.2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	1.9657	7.9943	15.7797	0.0466		0.2026	0.2026		0.2026	0.2026	0.0000	4,409.7537	4,409.7537	0.1707		4,414.0214
Total	1.9657	7.9943	15.7797	0.0466	8.4034	0.2026	8.6059	4.3188	0.2026	4.5214	0.0000	4,409.7537	4,409.7537	0.1707		4,414.0214

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	0.0000
Vendor	7.6000e-003	0.2824	0.1116	1.1100e-003	0.0480	1.9300e-003	0.0499	0.0140	1.8500e-003	0.0158		118.1719	118.1719	2.5300e-003	0.0173	123.3950
Worker	0.0227	0.0140	0.2785	1.1500e-003	0.1855	3.4000e-004	0.1858	0.0495	3.1000e-004	0.0498		131.0485	131.0485	1.1400e-003	2.4500e-003	131.8083

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0303	0.2964	0.3900	2.2600e-003	0.2334	2.2700e-003	0.2357	0.0634	2.1600e-003	0.0656		249.2204	249.2204	3.6700e-003	0.0198	255.2033
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3.4 Grading - 2049

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.7241	7.3885	22.3122	0.0699		0.2250	0.2250		0.2250	0.2250		7,213.1086	7,213.1086	0.2370		7,219.0343
Total	2.7241	7.3885	22.3122	0.0699	9.2036	0.2250	9.4286	3.6538	0.2250	3.8788		7,213.1086	7,213.1086	0.2370		7,219.0343

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	0.0000
Vendor	0.0152	0.5648	0.2231	2.2100e-003	0.1025	3.8600e-003	0.1064	0.0295	3.6900e-003	0.0332		236.3438	236.3438	5.0700e-003	0.0346	246.7900
Worker	0.0252	0.0155	0.3094	1.2800e-003	0.2236	3.8000e-004	0.2239	0.0593	3.5000e-004	0.0596		145.6094	145.6094	1.2600e-003	2.7300e-003	146.4537
Total	0.0404	0.5803	0.5326	3.4900e-003	0.3261	4.2400e-003	0.3303	0.0888	4.0400e-003	0.0929		381.9532	381.9532	6.3300e-003	0.0374	393.2437

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.7241	7.3885	22.3122	0.0699		0.2250	0.2250		0.2250	0.2250	0.0000	7,213.1086	7,213.1086	0.2370		7,219.0343
Total	2.7241	7.3885	22.3122	0.0699	3.9345	0.2250	4.1596	1.5620	0.2250	1.7870	0.0000	7,213.1086	7,213.1086	0.2370		7,219.0343

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	0.0000
Vendor	0.0152	0.5648	0.2231	2.2100e-003	0.0959	3.8600e-003	0.0998	0.0279	3.6900e-003	0.0316		236.3438	236.3438	5.0700e-003	0.0346	246.7900
Worker	0.0252	0.0155	0.3094	1.2800e-003	0.2061	3.8000e-004	0.2064	0.0550	3.5000e-004	0.0553		145.6094	145.6094	1.2600e-003	2.7300e-003	146.4537
Total	0.0404	0.5803	0.5326	3.4900e-003	0.3020	4.2400e-003	0.3062	0.0829	4.0400e-003	0.0869		381.9532	381.9532	6.3300e-003	0.0374	393.2437

3.5 Building Construction - 2049

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

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.5471	2,897.5471	0.1041		2,900.1503
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.5471	2,897.5471	0.1041		2,900.1503

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	0.0000
Vendor	0.0247	0.9178	0.3626	3.6000e-003	0.1666	6.2700e-003	0.1728	0.0480	6.0000e-003	0.0540		384.0587	384.0587	8.2400e-003	0.0563	401.0337
Worker	0.0845	0.0520	1.0366	4.3000e-003	0.7489	1.2700e-003	0.7502	0.1986	1.1700e-003	0.1998		487.7914	487.7914	4.2300e-003	9.1400e-003	490.6199
Total	0.1092	0.9697	1.3992	7.9000e-003	0.9155	7.5400e-003	0.9230	0.2466	7.1700e-003	0.2537		871.8501	871.8501	0.0125	0.0654	891.6536

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.5471	2,897.5471	0.1041		2,900.1503
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.5471	2,897.5471	0.1041		2,900.1503

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0247	0.9178	0.3626	3.6000e-003	0.1559	6.2700e-003	0.1622	0.0453	6.0000e-003	0.0513		384.0587	384.0587	8.2400e-003	0.0563	401.0337
Worker	0.0845	0.0520	1.0366	4.3000e-003	0.6903	1.2700e-003	0.6916	0.1842	1.1700e-003	0.1854		487.7914	487.7914	4.2300e-003	9.1400e-003	490.6199
Total	0.1092	0.9697	1.3992	7.9000e-003	0.8462	7.5400e-003	0.8537	0.2296	7.1700e-003	0.2367		871.8501	871.8501	0.0125	0.0654	891.6536

3.5 Building Construction - 2050

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.5471	2,897.5471	0.1041		2,900.1503
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737		2,897.5471	2,897.5471	0.1041		2,900.1503

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0247	0.9191	0.3591	3.5800e-003	0.1666	6.2600e-003	0.1728	0.0480	5.9900e-003	0.0540	381.7632	381.7632	7.7700e-003	0.0560	398.6322	
Worker	0.0808	0.0518	1.0249	4.2600e-003	0.7489	1.2100e-003	0.7501	0.1986	1.1100e-003	0.1997	485.2712	485.2712	4.0700e-003	9.1200e-003	488.0894	
Total	0.1054	0.9709	1.3840	7.8400e-003	0.9155	7.4700e-003	0.9229	0.2466	7.1000e-003	0.2537	867.0344	867.0344	0.0118	0.0651	886.7216	

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	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.5471	2,897.5471	0.1041		2,900.1503
Total	1.1970	6.8903	16.1185	0.0310		0.0737	0.0737		0.0737	0.0737	0.0000	2,897.5471	2,897.5471	0.1041		2,900.1503

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	0.0000
Vendor	0.0247	0.9191	0.3591	3.5800e-003	0.1559	6.2600e-003	0.1621	0.0453	5.9900e-003	0.0513		381.7632	381.7632	7.7700e-003	0.0560	398.6322
Worker	0.0808	0.0518	1.0249	4.2600e-003	0.6903	1.2100e-003	0.6915	0.1842	1.1100e-003	0.1853		485.2712	485.2712	4.0700e-003	9.1200e-003	488.0894

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1054	0.9709	1.3840	7.8400e-003	0.8462	7.4700e-003	0.8537	0.2296	7.1000e-003	0.2367		867.0344	867.0344	0.0118	0.0651	886.7216
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3.6 Paving - 2050

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164		2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0181	0.0116	0.2295	9.5000e-004	0.1677	2.7000e-004	0.1679	0.0445	2.5000e-004	0.0447		108.6428	108.6428	9.1000e-004	2.0400e-003	109.2738
Total	0.0181	0.0116	0.2295	9.5000e-004	0.1677	2.7000e-004	0.1679	0.0445	2.5000e-004	0.0447		108.6428	108.6428	9.1000e-004	2.0400e-003	109.2738

Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0112	3.6566	15.8177	0.0281		0.1164	0.1164		0.1164	0.1164	0.0000	2,656.5168	2,656.5168	0.0893		2,658.7489

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0181	0.0116	0.2295	9.5000e-004	0.1546	2.7000e-004	0.1548	0.0413	2.5000e-004	0.0415		108.6428	108.6428	9.1000e-004	2.0400e-003	109.2738
Total	0.0181	0.0116	0.2295	9.5000e-004	0.1546	2.7000e-004	0.1548	0.0413	2.5000e-004	0.0415		108.6428	108.6428	9.1000e-004	2.0400e-003	109.2738

3.7 Architectural Coating - 2050

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
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Construction Phase 5 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Archit. Coating	73.5417					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003	281.6957
Total	73.6566	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003	281.6957

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0157	0.0100	0.1989	8.3000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039
Total	0.0157	0.0100	0.1989	8.3000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039

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	73.5417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
Total	73.6566	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

Construction Phase 5 - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0157	0.0100	0.1989	8.3000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039
Total	0.0157	0.0100	0.1989	8.3000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039

Construction Phase 5 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 5
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	158.67	1000sqft	1.52	158,666.00	0
Other Non-Asphalt Surfaces	687.07	1000sqft	15.77	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the College District.

Trips and VMT - See Construction Phase 5 assumptions worksheet in the AQ/GHG appendix of the DEIR.

Demolition -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LandUseSquareFeet	687,073.00	0.00
tblLandUse	LotAcreage	3.64	1.52
tblTripsAndVMT	HaulingTripNumber	362.00	364.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Construction Phase 5 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2049	0.1996	1.0245	2.3835	5.8100e-003	0.3769	0.0145	0.3914	0.1386	0.0144	0.1530	0.0000	517.7245	517.7245	0.0164	7.8600e-003	520.4749
2050	0.8111	0.4330	1.0491	2.2500e-003	0.0476	5.2600e-003	0.0528	0.0128	5.2400e-003	0.0181	0.0000	197.9805	197.9805	6.1300e-003	2.9700e-003	199.0177
Maximum	0.8111	1.0245	2.3835	5.8100e-003	0.3769	0.0145	0.3914	0.1386	0.0144	0.1530	0.0000	517.7245	517.7245	0.0164	7.8600e-003	520.4749

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					
2049	0.1996	1.0245	2.3835	5.8100e-003	0.2116	0.0145	0.2260	0.0731	0.0144	0.0875	0.0000	517.7240	517.7240	0.0164	7.8600e-003	520.4744
2050	0.8111	0.4330	1.0491	2.2500e-003	0.0440	5.2600e-003	0.0492	0.0119	5.2400e-003	0.0172	0.0000	197.9803	197.9803	6.1300e-003	2.9700e-003	199.0175
Maximum	0.8111	1.0245	2.3835	5.8100e-003	0.2116	0.0145	0.2260	0.0731	0.0144	0.0875	0.0000	517.7240	517.7240	0.0164	7.8600e-003	520.4744

	ROG	NOx	CO	SO2	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	39.80	0.00	38.04	43.88	0.00	38.83	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)

Construction Phase 5 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1	1-1-2049	3-31-2049	0.3235	0.3235
2	4-1-2049	6-30-2049	0.2962	0.2962
3	7-1-2049	9-30-2049	0.2995	0.2995
4	10-1-2049	12-31-2049	0.3012	0.3012
5	1-1-2050	3-31-2050	0.2945	0.2945
6	4-1-2050	6-30-2050	0.5785	0.5785
7	7-1-2050	9-30-2050	0.3720	0.3720
		Highest	0.5785	0.5785

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	1/1/2049	1/28/2049	5	20	
2	Site Preparation	Site Preparation	1/29/2049	2/11/2049	5	10	
3	Grading	Grading	2/12/2049	3/25/2049	5	30	
4	Building Construction	Building Construction	3/26/2049	5/19/2050	5	300	
5	Paving	Paving	5/20/2050	6/16/2050	5	20	
6	Architectural Coating	Architectural Coating	6/17/2050	7/14/2050	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 15.77

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 237,999; Non-Residential Outdoor: 79,333; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

Construction Phase 5 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Grading	Scrapers	2	8.00	367	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	364.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	67.00	26.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2049

Unmitigated Construction On-Site

Construction Phase 5 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0392	0.0000	0.0392	5.9400e-003	0.0000	5.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.0531	0.1858	4.6000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	39.7218	39.7218	1.3500e-003	0.0000	39.7555
Total	0.0170	0.0531	0.1858	4.6000e-004	0.0392	1.6300e-003	0.0408	5.9400e-003	1.6300e-003	7.5700e-003	0.0000	39.7218	39.7218	1.3500e-003	0.0000	39.7555

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	4.0000e-004	0.0193	6.0300e-003	8.0000e-005	3.1300e-003	1.9000e-004	3.3200e-003	8.6000e-004	1.8000e-004	1.0400e-003	0.0000	7.4452	7.4452	2.7000e-004	1.1800e-003	7.8029
Vendor	4.0000e-005	1.4000e-003	5.5000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.5352	0.5352	1.0000e-005	8.0000e-005	0.5588
Worker	1.7000e-004	1.2000e-004	2.4300e-003	1.0000e-005	1.6400e-003	0.0000	1.6500e-003	4.4000e-004	0.0000	4.4000e-004	0.0000	1.0102	1.0102	1.0000e-005	2.0000e-005	1.0161
Total	6.1000e-004	0.0209	9.0100e-003	1.0000e-004	5.0200e-003	2.0000e-004	5.2300e-003	1.3700e-003	1.9000e-004	1.5600e-003	0.0000	8.9905	8.9905	2.9000e-004	1.2800e-003	9.3778

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					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					0.0168	0.0000	0.0168	2.5400e-003	0.0000	2.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.0531	0.1858	4.6000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	39.7218	39.7218	1.3500e-003	0.0000	39.7554
Total	0.0170	0.0531	0.1858	4.6000e-004	0.0168	1.6300e-003	0.0168	2.5400e-003	1.6300e-003	4.1700e-003	0.0000	39.7218	39.7218	1.3500e-003	0.0000	39.7554

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	4.0000e-004	0.0193	6.0300e-003	8.0000e-005	2.9200e-003	1.9000e-004	3.1100e-003	8.1000e-004	1.8000e-004	9.9000e-004	0.0000	7.4452	7.4452	2.7000e-004	1.1800e-003	7.8029
Vendor	4.0000e-005	1.4000e-003	5.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.5352	0.5352	1.0000e-005	8.0000e-005	0.5588
Worker	1.7000e-004	1.2000e-004	2.4300e-003	1.0000e-005	1.5200e-003	0.0000	1.5200e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	1.0102	1.0102	1.0000e-005	2.0000e-005	1.0161
Total	6.1000e-004	0.0209	9.0100e-003	1.0000e-004	4.6800e-003	2.0000e-004	4.8800e-003	1.2900e-003	1.9000e-004	1.4800e-003	0.0000	8.9905	8.9905	2.9000e-004	1.2800e-003	9.3778

3.3 Site Preparation - 2049

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8300e-003	0.0400	0.0789	2.3000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	20.0023	20.0023	7.7000e-004	0.0000	20.0217
Total	9.8300e-003	0.0400	0.0789	2.3000e-004	0.0983	1.0100e-003	0.0993	0.0505	1.0100e-003	0.0515	0.0000	20.0023	20.0023	7.7000e-004	0.0000	20.0217

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	4.0000e-005	1.4000e-003	5.5000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.5352	0.5352	1.0000e-005	8.0000e-005	0.5588
Worker	1.0000e-004	7.0000e-005	1.4600e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.6061	0.6061	1.0000e-005	1.0000e-005	0.6097
Total	1.4000e-004	1.4700e-003	2.0100e-003	2.0000e-005	1.2400e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1413	1.1413	2.0000e-005	9.0000e-005	1.1685

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0420	0.0000	0.0420	0.0216	0.0000	0.0216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8300e-003	0.0400	0.0789	2.3000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	20.0023	20.0023	7.7000e-004	0.0000	20.0216
Total	9.8300e-003	0.0400	0.0789	2.3000e-004	0.0420	1.0100e-003	0.0430	0.0216	1.0100e-003	0.0226	0.0000	20.0023	20.0023	7.7000e-004	0.0000	20.0216

Mitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	4.0000e-005	1.4000e-003	5.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.5352	0.5352	1.0000e-005	8.0000e-005	0.5588
Worker	1.0000e-004	7.0000e-005	1.4600e-003	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6061	0.6061	1.0000e-005	1.0000e-005	0.6097
Total	1.4000e-004	1.4700e-003	2.0100e-003	2.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1413	1.1413	2.0000e-005	9.0000e-005	1.1685

3.4 Grading - 2049

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0409	0.1108	0.3347	1.0500e-003		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	98.1543	98.1543	3.2300e-003	0.0000	98.2350
Total	0.0409	0.1108	0.3347	1.0500e-003	0.1381	3.3800e-003	0.1414	0.0548	3.3800e-003	0.0582	0.0000	98.1543	98.1543	3.2300e-003	0.0000	98.2350

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					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-004	8.4200e-003	3.2900e-003	3.0000e-005	1.5100e-003	6.0000e-005	1.5700e-003	4.4000e-004	6.0000e-005	4.9000e-004	0.0000	3.2111	3.2111	7.0000e-005	4.7000e-004	3.3530
Worker	3.4000e-004	2.4000e-004	4.8700e-003	2.0000e-005	3.2900e-003	1.0000e-005	3.3000e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.0203	2.0203	2.0000e-005	4.0000e-005	2.0322
Total	5.8000e-004	8.6600e-003	8.1600e-003	5.0000e-005	4.8000e-003	7.0000e-005	4.8700e-003	1.3100e-003	7.0000e-005	1.3700e-003	0.0000	5.2314	5.2314	9.0000e-005	5.1000e-004	5.3852

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0590	0.0000	0.0590	0.0234	0.0000	0.0234	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0409	0.1108	0.3347	1.0500e-003		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	98.1542	98.1542	3.2300e-003	0.0000	98.2349
Total	0.0409	0.1108	0.3347	1.0500e-003	0.0590	3.3800e-003	0.0624	0.0234	3.3800e-003	0.0268	0.0000	98.1542	98.1542	3.2300e-003	0.0000	98.2349

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-004	8.4200e-003	3.2900e-003	3.0000e-005	1.4200e-003	6.0000e-005	1.4700e-003	4.1000e-004	6.0000e-005	4.7000e-004	0.0000	3.2111	3.2111	7.0000e-005	4.7000e-004	3.3530
Worker	3.4000e-004	2.4000e-004	4.8700e-003	2.0000e-005	3.0300e-003	1.0000e-005	3.0400e-003	8.1000e-004	1.0000e-005	8.2000e-004	0.0000	2.0203	2.0203	2.0000e-005	4.0000e-005	2.0322

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	5.8000e-004	8.6600e-003	8.1600e-003	5.0000e-005	4.4500e-003	7.0000e-005	4.5100e-003	1.2200e-003	7.0000e-005	1.2900e-003	0.0000	5.2314	5.2314	9.0000e-005	5.1000e-004	5.3852
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3.5 Building Construction - 2049

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	0.1203	0.6925	1.6199	3.1100e-003		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	264.1754	264.1754	9.4900e-003	0.0000	264.4127
Total	0.1203	0.6925	1.6199	3.1100e-003		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	264.1754	264.1754	9.4900e-003	0.0000	264.4127

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-003	0.0917	0.0358	3.6000e-004	0.0165	6.3000e-004	0.0171	4.7600e-003	6.0000e-004	5.3600e-003	0.0000	34.9609	34.9609	7.6000e-004	5.1200e-003	36.5063
Worker	7.7000e-003	5.4500e-003	0.1092	4.4000e-004	0.0738	1.3000e-004	0.0740	0.0196	1.2000e-004	0.0197	0.0000	45.3466	45.3466	3.9000e-004	8.6000e-004	45.6123
Total	0.0103	0.0971	0.1451	8.0000e-004	0.0903	7.6000e-004	0.0911	0.0244	7.2000e-004	0.0251	0.0000	80.3074	80.3074	1.1500e-003	5.9800e-003	82.1186

Mitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	0.1203	0.6925	1.6199	3.1100e-003		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	264.1750	264.1750	9.4900e-003	0.0000	264.4124
Total	0.1203	0.6925	1.6199	3.1100e-003		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	264.1750	264.1750	9.4900e-003	0.0000	264.4124

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-003	0.0917	0.0358	3.6000e-004	0.0154	6.3000e-004	0.0161	4.5000e-003	6.0000e-004	5.1000e-003	0.0000	34.9609	34.9609	7.6000e-004	5.1200e-003	36.5063
Worker	7.7000e-003	5.4500e-003	0.1092	4.4000e-004	0.0681	1.3000e-004	0.0682	0.0182	1.2000e-004	0.0183	0.0000	45.3466	45.3466	3.9000e-004	8.6000e-004	45.6123
Total	0.0103	0.0971	0.1451	8.0000e-004	0.0835	7.6000e-004	0.0843	0.0227	7.2000e-004	0.0234	0.0000	80.3074	80.3074	1.1500e-003	5.9800e-003	82.1186

3.5 Building Construction - 2050

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	0.0593	0.3411	0.7979	1.5300e-003		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	130.1162	130.1162	4.6800e-003	0.0000	130.2331

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0593	0.3411	0.7979	1.5300e-003		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	130.1162	130.1162	4.6800e-003	0.0000	130.2331
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2800e-003	0.0452	0.0175	1.8000e-004	8.1200e-003	3.1000e-004	8.4300e-003	2.3400e-003	3.0000e-004	2.6400e-003	0.0000	17.1162	17.1162	3.5000e-004	2.5100e-003	17.8726
Worker	3.6100e-003	2.6700e-003	0.0532	2.2000e-004	0.0364	6.0000e-005	0.0364	9.6600e-003	5.0000e-005	9.7100e-003	0.0000	22.2194	22.2194	1.8000e-004	4.2000e-004	22.3499
Total	4.8900e-003	0.0479	0.0707	4.0000e-004	0.0445	3.7000e-004	0.0449	0.0120	3.5000e-004	0.0124	0.0000	39.3356	39.3356	5.3000e-004	2.9300e-003	40.2224

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	0.0593	0.3411	0.7979	1.5300e-003		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	130.1161	130.1161	4.6800e-003	0.0000	130.2330
Total	0.0593	0.3411	0.7979	1.5300e-003		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	130.1161	130.1161	4.6800e-003	0.0000	130.2330

Mitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2800e-003	0.0452	0.0175	1.8000e-004	7.6000e-003	3.1000e-004	7.9100e-003	2.2200e-003	3.0000e-004	2.5100e-003	0.0000	17.1162	17.1162	3.5000e-004	2.5100e-003	17.8726
Worker	3.6100e-003	2.6700e-003	0.0532	2.2000e-004	0.0335	6.0000e-005	0.0336	8.9600e-003	5.0000e-005	9.0200e-003	0.0000	22.2194	22.2194	1.8000e-004	4.2000e-004	22.3499
Total	4.8900e-003	0.0479	0.0707	4.0000e-004	0.0411	3.7000e-004	0.0415	0.0112	3.5000e-004	0.0115	0.0000	39.3356	39.3356	5.3000e-004	2.9300e-003	40.2224

3.6 Paving - 2050

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	0.0101	0.0366	0.1582	2.8000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	24.0995	24.0995	8.1000e-004	0.0000	24.1198
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.0366	0.1582	2.8000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	24.0995	24.0995	8.1000e-004	0.0000	24.1198

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					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.6000e-004	1.2000e-004	2.4100e-003	1.0000e-005	1.6400e-003	0.0000	1.6500e-003	4.4000e-004	0.0000	4.4000e-004	0.0000	1.0050	1.0050	1.0000e-005	2.0000e-005	1.0109
Total	1.6000e-004	1.2000e-004	2.4100e-003	1.0000e-005	1.6400e-003	0.0000	1.6500e-003	4.4000e-004	0.0000	4.4000e-004	0.0000	1.0050	1.0050	1.0000e-005	2.0000e-005	1.0109

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	0.0101	0.0366	0.1582	2.8000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	24.0995	24.0995	8.1000e-004	0.0000	24.1197
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.0366	0.1582	2.8000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	24.0995	24.0995	8.1000e-004	0.0000	24.1197

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	1.6000e-004	1.2000e-004	2.4100e-003	1.0000e-005	1.5200e-003	0.0000	1.5200e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	1.0050	1.0050	1.0000e-005	2.0000e-005	1.0109

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.6000e-004	1.2000e-004	2.4100e-003	1.0000e-005	1.5200e-003	0.0000	1.5200e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	1.0050	1.0050	1.0000e-005	2.0000e-005	1.0109
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3.7 Architectural Coating - 2050

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	0.7354					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	7.2700e-003	0.0179	3.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	2.5533	2.5533	9.0000e-005	0.0000	2.5555
Total	0.7366	7.2700e-003	0.0179	3.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	2.5533	2.5533	9.0000e-005	0.0000	2.5555

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	2.0900e-003	1.0000e-005	1.4300e-003	0.0000	1.4300e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.8710	0.8710	1.0000e-005	2.0000e-005	0.8761
Total	1.4000e-004	1.0000e-004	2.0900e-003	1.0000e-005	1.4300e-003	0.0000	1.4300e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.8710	0.8710	1.0000e-005	2.0000e-005	0.8761

Construction Phase 5 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.7354					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1500e-003	7.2700e-003	0.0179	3.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	2.5533	2.5533	9.0000e-005	0.0000	2.5555
Total	0.7366	7.2700e-003	0.0179	3.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	2.5533	2.5533	9.0000e-005	0.0000	2.5555

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	2.0900e-003	1.0000e-005	1.3100e-003	0.0000	1.3200e-003	3.5000e-004	0.0000	3.5000e-004	0.0000	0.8710	0.8710	1.0000e-005	2.0000e-005	0.8761
Total	1.4000e-004	1.0000e-004	2.0900e-003	1.0000e-005	1.3100e-003	0.0000	1.3200e-003	3.5000e-004	0.0000	3.5000e-004	0.0000	0.8710	0.8710	1.0000e-005	2.0000e-005	0.8761

Construction Phase 5
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	5	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00

Construction Phase 5

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.15000E-003	7.27000E-003	1.79200E-002	3.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	2.55325E+000	2.55325E+000	9.00000E-005	0.00000E+000	2.55550E+000
Concrete/Industrial Saws	2.03000E-003	1.49500E-002	3.62600E-002	6.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	5.37656E+000	5.37656E+000	1.60000E-004	0.00000E+000	5.38058E+000
Cranes	3.02400E-002	5.33400E-002	1.77400E-001	9.30000E-004	2.02000E-003	2.02000E-003	0.00000E+000	7.99477E+001	7.99477E+001	2.39000E-003	0.00000E+000	8.00075E+001
Excavators	1.22600E-002	1.97600E-002	2.13670E-001	3.80000E-004	8.30000E-004	8.30000E-004	0.00000E+000	3.27559E+001	3.27559E+001	9.80000E-004	0.00000E+000	3.27803E+001
Forklifts	3.89900E-002	2.10640E-001	5.35990E-001	8.50000E-004	2.26000E-003	2.26000E-003	0.00000E+000	7.28332E+001	7.28332E+001	3.08000E-003	0.00000E+000	7.29101E+001
Generator Sets	2.50000E-002	2.30060E-001	5.43990E-001	9.90000E-004	1.97000E-003	1.97000E-003	0.00000E+000	8.47811E+001	8.47811E+001	1.94000E-003	0.00000E+000	8.48296E+001
Graders	3.81000E-003	7.30000E-003	2.29800E-002	1.20000E-004	2.60000E-004	2.60000E-004	0.00000E+000	1.04572E+001	1.04572E+001	3.10000E-004	0.00000E+000	1.04650E+001
Pavers	4.10000E-003	1.12300E-002	6.39200E-002	1.20000E-004	5.20000E-004	5.20000E-004	0.00000E+000	9.92932E+000	9.92932E+000	3.30000E-004	0.00000E+000	9.93762E+000
Paving Equipment	3.44000E-003	8.98000E-003	5.53800E-002	1.00000E-004	4.20000E-004	4.20000E-004	0.00000E+000	8.64178E+000	8.64178E+000	2.70000E-004	0.00000E+000	8.64862E+000
Rollers	2.57000E-003	1.63500E-002	3.88700E-002	6.00000E-005	2.30000E-004	2.30000E-004	0.00000E+000	5.52841E+000	5.52841E+000	2.00000E-004	0.00000E+000	5.53352E+000
Rubber Tired Dozers	2.20400E-002	7.05700E-002	1.06730E-001	5.20000E-004	2.70000E-003	2.70000E-003	0.00000E+000	4.49184E+001	4.49184E+001	1.74000E-003	0.00000E+000	4.49618E+001
Scrapers	1.94800E-002	4.42700E-002	1.02530E-001	4.70000E-004	1.58000E-003	1.58000E-003	0.00000E+000	4.80535E+001	4.80535E+001	1.52000E-003	0.00000E+000	4.80916E+001
Tractors/Loaders/Backhoes	7.13500E-002	4.17120E-001	1.04014E+000	1.69000E-003	4.49000E-003	4.49000E-003	0.00000E+000	1.44813E+002	1.44813E+002	5.61000E-003	0.00000E+000	1.44954E+002
Welders	2.20100E-002	1.69380E-001	2.37450E-001	3.80000E-004	8.20000E-004	8.20000E-004	0.00000E+000	2.82331E+001	2.82331E+001	1.79000E-003	0.00000E+000	2.82779E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.15000E-003	7.27000E-003	1.79200E-002	3.00000E-005	7.00000E-005	7.00000E-005	0.00000E+000	2.55325E+000	2.55325E+000	9.00000E-005	0.00000E+000	2.55550E+000
Concrete/Industrial Saws	2.03000E-003	1.49500E-002	3.62600E-002	6.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	5.37656E+000	5.37656E+000	1.60000E-004	0.00000E+000	5.38058E+000
Cranes	3.02400E-002	5.33400E-002	1.77400E-001	9.30000E-004	2.02000E-003	2.02000E-003	0.00000E+000	7.99476E+001	7.99476E+001	2.39000E-003	0.00000E+000	8.00074E+001
Excavators	1.22600E-002	1.97600E-002	2.13670E-001	3.80000E-004	8.30000E-004	8.30000E-004	0.00000E+000	3.27558E+001	3.27558E+001	9.80000E-004	0.00000E+000	3.27803E+001
Forklifts	3.89900E-002	2.10640E-001	5.35990E-001	8.50000E-004	2.26000E-003	2.26000E-003	0.00000E+000	7.28331E+001	7.28331E+001	3.08000E-003	0.00000E+000	7.29100E+001
Generator Sets	2.50000E-002	2.30060E-001	5.43990E-001	9.90000E-004	1.97000E-003	1.97000E-003	0.00000E+000	8.47810E+001	8.47810E+001	1.94000E-003	0.00000E+000	8.48295E+001
Graders	3.81000E-003	7.30000E-003	2.29800E-002	1.20000E-004	2.60000E-004	2.60000E-004	0.00000E+000	1.04571E+001	1.04571E+001	3.10000E-004	0.00000E+000	1.04650E+001
Pavers	4.10000E-003	1.12300E-002	6.39200E-002	1.20000E-004	5.20000E-004	5.20000E-004	0.00000E+000	9.92931E+000	9.92931E+000	3.30000E-004	0.00000E+000	9.93761E+000
Paving Equipment	3.44000E-003	8.98000E-003	5.53800E-002	1.00000E-004	4.20000E-004	4.20000E-004	0.00000E+000	8.64177E+000	8.64177E+000	2.70000E-004	0.00000E+000	8.64861E+000

Construction Phase 5

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Rollers	2.57000E-003	1.63500E-002	3.88700E-002	6.00000E-005	2.30000E-004	2.30000E-004	0.00000E+000	5.52841E+000	5.52841E+000	2.00000E-004	0.00000E+000	5.53351E+000
Rubber Tired Dozers	2.20400E-002	7.05700E-002	1.06730E-001	5.20000E-004	2.70000E-003	2.70000E-003	0.00000E+000	4.49183E+001	4.49183E+001	1.74000E-003	0.00000E+000	4.49618E+001
Scrapers	1.94800E-002	4.42700E-002	1.02530E-001	4.70000E-004	1.58000E-003	1.58000E-003	0.00000E+000	4.80535E+001	4.80535E+001	1.52000E-003	0.00000E+000	4.80915E+001
Tractors/Loaders/Bac hoes	7.13500E-002	4.17120E-001	1.04013E+000	1.69000E-003	4.49000E-003	4.49000E-003	0.00000E+000	1.44813E+002	1.44813E+002	5.61000E-003	0.00000E+000	1.44953E+002
Welders	2.20100E-002	1.69380E-001	2.37450E-001	3.80000E-004	8.20000E-004	8.20000E-004	0.00000E+000	2.82331E+001	2.82331E+001	1.79000E-003	0.00000E+000	2.82778E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25082E-006	1.25082E-006	0.00000E+000	0.00000E+000	1.12489E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22116E-006	1.22116E-006	0.00000E+000	0.00000E+000	1.22024E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23570E-006	1.23570E-006	0.00000E+000	0.00000E+000	1.23440E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17883E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.91257E-006	1.91257E-006	0.00000E+000	0.00000E+000	1.91114E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.00712E-006	1.00712E-006	0.00000E+000	0.00000E+000	1.00628E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15717E-006	1.15717E-006	0.00000E+000	0.00000E+000	1.15625E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.80717E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11313E-006	1.11313E-006	0.00000E+000	0.00000E+000	1.11205E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.04051E-006	1.04051E-006	0.00000E+000	0.00000E+000	1.24762E-006
Tractors/Loaders/Bac hoes	0.00000E+000	0.00000E+000	9.61409E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17392E-006	1.17392E-006	0.00000E+000	0.00000E+000	1.17279E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06258E-006	1.06258E-006	0.00000E+000	0.00000E+000	1.41453E-006

Construction Phase 5

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.13	0.04	0.12	0.03	0.08	0.07
Demolition	Fugitive Dust	0.04	0.01	0.02	0.00	0.57	0.57
Demolition	Roads	0.01	0.00	0.00	0.00	0.07	0.06
Grading	Fugitive Dust	0.14	0.05	0.06	0.02	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Site Preparation	Fugitive Dust	0.10	0.05	0.04	0.02	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.06

CalEEMod Output: Phase 5 Construction – Mitigated

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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 5 Mitigated
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	158.67	1000sqft	1.52	158,666.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Trips and VMT - See Construction Phase 5 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Demolition -
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186
- Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.64	1.52
tblTripsAndVMT	HaulingTripNumber	362.00	364.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	0.00	6.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2049	1.1881	7.6982	13.6885	0.0372	7.2328	0.1181	7.3238	3.4655	0.1172	3.5563	0.0000	3,645.5363	3,645.5363	0.1296	0.1401	3,690.5203
2050	29.5470	7.2006	13.6283	0.0321	0.9155	0.0714	0.9754	0.2466	0.0714	0.3061	0.0000	3,068.5382	3,068.5382	0.0967	0.0646	3,090.2134
Maximum	29.5470	7.6982	13.6885	0.0372	7.2328	0.1181	7.3238	3.4655	0.1172	3.5563	0.0000	3,645.5363	3,645.5363	0.1296	0.1401	3,690.5203

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					
2049	1.1881	7.6982	13.6885	0.0372	3.1668	0.1181	3.2578	1.5020	0.1172	1.5929	0.0000	3,645.5363	3,645.5363	0.1296	0.1401	3,690.5203
2050	29.5470	7.2006	13.6283	0.0321	0.8462	0.0714	0.9061	0.2296	0.0714	0.2891	0.0000	3,068.5382	3,068.5382	0.0967	0.0646	3,090.2134
Maximum	29.5470	7.6982	13.6885	0.0372	3.1668	0.1181	3.2578	1.5020	0.1172	1.5929	0.0000	3,645.5363	3,645.5363	0.1296	0.1401	3,690.5203

	ROG	NOx	CO	SO2	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	50.75	0.00	49.83	53.35	0.00	51.27	0.00	0.00	0.00	0.00	0.00	0.00

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	8/2/2049	8/27/2049	5	20	
2	Site Preparation	Site Preparation	8/28/2049	8/31/2049	5	2	
3	Grading	Grading	9/1/2049	9/6/2049	5	4	
4	Building Construction	Building Construction	9/7/2049	6/13/2050	5	200	
5	Paving	Paving	6/14/2050	6/27/2050	5	10	
6	Architectural Coating	Architectural Coating	6/28/2050	7/11/2050	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 237,999; Non-Residential Outdoor: 79,333; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	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
Demolition	5	13.00	4.00	364.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	67.00	26.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2049

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.9203	0.0000	3.9203	0.5936	0.0000	0.5936			0.0000			0.0000

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-Road	1.1266	5.7269	12.7926	0.0281		0.0980	0.0980		0.0980	0.0980		2,662.1297	2,662.1297	0.0978		2,664.5757
Total	1.1266	5.7269	12.7926	0.0281	3.9203	0.0980	4.0183	0.5936	0.0980	0.6915		2,662.1297	2,662.1297	0.0978		2,664.5757

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	0.0412	1.8282	0.5988	7.5800e-003	0.3187	0.0189	0.3375	0.0874	0.0181	0.1054		820.1031	820.1031	0.0296	0.1297	859.5043
Vendor	4.1400e-003	0.1335	0.0540	5.5000e-004	0.0256	9.6000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		58.9269	58.9269	1.2800e-003	8.6300e-003	61.5304
Worker	0.0162	9.6300e-003	0.2431	9.2000e-004	0.1453	2.5000e-004	0.1456	0.0385	2.3000e-004	0.0388		104.3767	104.3767	8.0000e-004	1.7200e-003	104.9098
Total	0.0616	1.9713	0.8959	9.0500e-003	0.4896	0.0201	0.5097	0.1333	0.0192	0.1525		983.4067	983.4067	0.0317	0.1401	1,025.9445

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6759	0.0000	1.6759	0.2538	0.0000	0.2538			0.0000			0.0000
Off-Road	1.1266	5.7269	12.7926	0.0281		0.0980	0.0980		0.0980	0.0980	0.0000	2,662.1297	2,662.1297	0.0978		2,664.5757
Total	1.1266	5.7269	12.7926	0.0281	1.6759	0.0980	1.7739	0.2538	0.0980	0.3517	0.0000	2,662.1297	2,662.1297	0.0978		2,664.5757

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0412	1.8282	0.5988	7.5800e-003	0.2970	0.0189	0.3159	0.0821	0.0181	0.1001		820.1031	820.1031	0.0296	0.1297	859.5043
Vendor	4.1400e-003	0.1335	0.0540	5.5000e-004	0.0240	9.6000e-004	0.0249	6.9800e-003	9.2000e-004	7.9000e-003		58.9269	58.9269	1.2800e-003	8.6300e-003	61.5304
Worker	0.0162	9.6300e-003	0.2431	9.2000e-004	0.1339	2.5000e-004	0.1342	0.0358	2.3000e-004	0.0360		104.3767	104.3767	8.0000e-004	1.7200e-003	104.9098
Total	0.0616	1.9713	0.8959	9.0500e-003	0.4549	0.0201	0.4750	0.1248	0.0192	0.1440		983.4067	983.4067	0.0317	0.1401	1,025.9445

3.3 Site Preparation - 2049

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					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	0.8008	2.6618	5.7438	0.0211		0.0750	0.0750		0.0750	0.0750		1,994.6929	1,994.6929	0.0705		1,996.4543
Total	0.8008	2.6618	5.7438	0.0211	6.2662	0.0750	6.3412	3.0041	0.0750	3.0791		1,994.6929	1,994.6929	0.0705		1,996.4543

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	4.1400e-003	0.1335	0.0540	5.5000e-004	0.0256	9.6000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003	58.9269	58.9269	1.2800e-003	8.6300e-003	61.5304	
Worker	9.9800e-003	5.9300e-003	0.1496	5.7000e-004	0.0894	1.5000e-004	0.0896	0.0237	1.4000e-004	0.0239	64.2318	64.2318	4.9000e-004	1.0600e-003	64.5599	
Total	0.0141	0.1394	0.2037	1.1200e-003	0.1150	1.1100e-003	0.1162	0.0311	1.0600e-003	0.0322	123.1587	123.1587	1.7700e-003	9.6900e-003	126.0903	

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					2.6788	0.0000	2.6788	1.2843	0.0000	1.2843			0.0000			0.0000
Off-Road	0.8008	2.6618	5.7438	0.0211		0.0750	0.0750		0.0750	0.0750	0.0000	1,994.6929	1,994.6929	0.0705		1,996.4543
Total	0.8008	2.6618	5.7438	0.0211	2.6788	0.0750	2.7538	1.2843	0.0750	1.3592	0.0000	1,994.6929	1,994.6929	0.0705		1,996.4543

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	0.0000
Vendor	4.1400e-003	0.1335	0.0540	5.5000e-004	0.0240	9.6000e-004	0.0249	6.9800e-003	9.2000e-004	7.9000e-003	58.9269	58.9269	1.2800e-003	8.6300e-003	61.5304	

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	9.9800e-003	5.9300e-003	0.1496	5.7000e-004	0.0824	1.5000e-004	0.0826	0.0220	1.4000e-004	0.0221		64.2318	64.2318	4.9000e-004	1.0600e-003	64.5599
Total	0.0141	0.1394	0.2037	1.1200e-003	0.1064	1.1100e-003	0.1075	0.0290	1.0600e-003	0.0300		123.1587	123.1587	1.7700e-003	9.6900e-003	126.0903

3.4 Grading - 2049

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	0.9764	3.5432	7.7686	0.0252		0.0893	0.0893		0.0893	0.0893		2,388.2741	2,388.2741	0.0857		2,390.4165
Total	0.9764	3.5432	7.7686	0.0252	7.0826	0.0893	7.1719	3.4247	0.0893	3.5141		2,388.2741	2,388.2741	0.0857		2,390.4165

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	0.0000
Vendor	6.2100e-003	0.2002	0.0811	8.3000e-004	0.0384	1.4400e-003	0.0399	0.0111	1.3800e-003	0.0125		88.3903	88.3903	1.9300e-003	0.0129	92.2956
Worker	0.0125	7.4100e-003	0.1870	7.1000e-004	0.1118	1.9000e-004	0.1120	0.0296	1.7000e-004	0.0298		80.2897	80.2897	6.1000e-004	1.3200e-003	80.6999
Total	0.0187	0.2076	0.2681	1.5400e-003	0.1502	1.6300e-003	0.1519	0.0407	1.5500e-003	0.0423		168.6801	168.6801	2.5400e-003	0.0143	172.9955

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	0.9764	3.5432	7.7686	0.0252		0.0893	0.0893		0.0893	0.0893	0.0000	2,388.2741	2,388.2741	0.0857		2,390.4165
Total	0.9764	3.5432	7.7686	0.0252	3.0278	0.0893	3.1171	1.4641	0.0893	1.5534	0.0000	2,388.2741	2,388.2741	0.0857		2,390.4165

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	0.0000
Vendor	6.2100e-003	0.2002	0.0811	8.3000e-004	0.0360	1.4400e-003	0.0374	0.0105	1.3800e-003	0.0118		88.3903	88.3903	1.9300e-003	0.0129	92.2956
Worker	0.0125	7.4100e-003	0.1870	7.1000e-004	0.1030	1.9000e-004	0.1032	0.0275	1.7000e-004	0.0277		80.2897	80.2897	6.1000e-004	1.3200e-003	80.6999
Total	0.0187	0.2076	0.2681	1.5400e-003	0.1390	1.6300e-003	0.1406	0.0380	1.5500e-003	0.0395		168.6801	168.6801	2.5400e-003	0.0143	172.9955

3.5 Building Construction - 2049

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
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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525		2,152.6577	2,152.6577	0.0848		2,154.7787
Total	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525		2,152.6577	2,152.6577	0.0848		2,154.7787

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	0.0000
Vendor	0.0269	0.8677	0.3513	3.5900e-003	0.1666	6.2500e-003	0.1728	0.0480	5.9800e-003	0.0539		383.0248	383.0248	8.3500e-003	0.0561	399.9476
Worker	0.0836	0.0497	1.2530	4.7400e-003	0.7489	1.2700e-003	0.7502	0.1986	1.1700e-003	0.1998		537.9412	537.9412	4.1100e-003	8.8800e-003	540.6892
Total	0.1105	0.9173	1.6042	8.3300e-003	0.9155	7.5200e-003	0.9230	0.2466	7.1500e-003	0.2537		920.9660	920.9660	0.0125	0.0650	940.6368

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	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525	0.0000	2,152.6577	2,152.6577	0.0848		2,154.7787
Total	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525	0.0000	2,152.6577	2,152.6577	0.0848		2,154.7787

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0269	0.8677	0.3513	3.5900e-003	0.1559	6.2500e-003	0.1621	0.0453	5.9800e-003	0.0513		383.0248	383.0248	8.3500e-003	0.0561	399.9476
Worker	0.0836	0.0497	1.2530	4.7400e-003	0.6903	1.2700e-003	0.6916	0.1842	1.1700e-003	0.1854		537.9412	537.9412	4.1100e-003	8.8800e-003	540.6892
Total	0.1105	0.9173	1.6042	8.3300e-003	0.8462	7.5200e-003	0.8537	0.2296	7.1500e-003	0.2367		920.9660	920.9660	0.0125	0.0650	940.6368

3.5 Building Construction - 2050
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	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525		2,152.6577	2,152.6577	0.0848		2,154.7787
Total	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525		2,152.6577	2,152.6577	0.0848		2,154.7787

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0269	0.8689	0.3480	3.5700e-003	0.1666	6.2400e-003	0.1728	0.0480	5.9700e-003	0.0539	380.7191	380.7191	7.8800e-003	0.0558	397.5350	
Worker	0.0795	0.0495	1.2397	4.7000e-003	0.7489	1.2100e-003	0.7501	0.1986	1.1100e-003	0.1997	535.1615	535.1615	3.9500e-003	8.8600e-003	537.8996	
Total	0.1063	0.9184	1.5877	8.2700e-003	0.9155	7.4500e-003	0.9229	0.2466	7.0800e-003	0.2537	915.8805	915.8805	0.0118	0.0646	935.4347	

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	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525	0.0000	2,152.6577	2,152.6577	0.0848		2,154.7787
Total	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525	0.0000	2,152.6577	2,152.6577	0.0848		2,154.7787

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	0.0000
Vendor	0.0269	0.8689	0.3480	3.5700e-003	0.1559	6.2400e-003	0.1621	0.0453	5.9700e-003	0.0513		380.7191	380.7191	7.8800e-003	0.0558	397.5350
Worker	0.0795	0.0495	1.2397	4.7000e-003	0.6903	1.2100e-003	0.6915	0.1842	1.1100e-003	0.1853		535.1615	535.1615	3.9500e-003	8.8600e-003	537.8996

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1063	0.9184	1.5877	8.2700e-003	0.8462	7.4500e-003	0.8536	0.2296	7.0800e-003	0.2367		915.8805	915.8805	0.0118	0.0646	935.4347
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3.6 Paving - 2050

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	0.6431	2.8019	9.4422	0.0165		0.0712	0.0712		0.0712	0.0712		1,550.9712	1,550.9712	0.0565		1,552.3842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6431	2.8019	9.4422	0.0165		0.0712	0.0712		0.0712	0.0712		1,550.9712	1,550.9712	0.0565		1,552.3842

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686
Total	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.6431	2.8019	9.4422	0.0165		0.0712	0.0712		0.0712	0.0712	0.0000	1,550.9712	1,550.9712	0.0565		1,552.3842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6431	2.8019	9.4422	0.0165		0.0712	0.0712		0.0712	0.0712	0.0000	1,550.9712	1,550.9712	0.0565		1,552.3842

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686
Total	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686

3.7 Architectural Coating - 2050

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
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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Archit. Coating	29.4167					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	29.5316	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686
Total	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686

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	29.4167					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	29.5316	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
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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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686
Total	0.0154	9.6000e-003	0.2405	9.1000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		103.8373	103.8373	7.7000e-004	1.7200e-003	104.3686

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 5 Mitigated
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	158.67	1000sqft	1.52	158,666.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Trips and VMT - See Construction Phase 5 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Demolition -
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186
- Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.64	1.52
tblTripsAndVMT	HaulingTripNumber	362.00	364.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	0.00	6.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2049	1.1846	7.8078	13.6591	0.0371	7.2328	0.1181	7.3238	3.4655	0.1172	3.5563	0.0000	3,637.3649	3,637.3649	0.1294	0.1404	3,682.4345
2050	29.5473	7.2532	13.4247	0.0317	0.9155	0.0714	0.9754	0.2466	0.0714	0.3061	0.0000	3,019.6921	3,019.6921	0.0967	0.0651	3,041.5003
Maximum	29.5473	7.8078	13.6591	0.0371	7.2328	0.1181	7.3238	3.4655	0.1172	3.5563	0.0000	3,637.3649	3,637.3649	0.1294	0.1404	3,682.4345

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					
2049	1.1846	7.8078	13.6591	0.0371	3.1668	0.1181	3.2578	1.5020	0.1172	1.5929	0.0000	3,637.3649	3,637.3649	0.1294	0.1404	3,682.4345
2050	29.5473	7.2532	13.4247	0.0317	0.8462	0.0714	0.9061	0.2296	0.0714	0.2891	0.0000	3,019.6921	3,019.6921	0.0967	0.0651	3,041.5003
Maximum	29.5473	7.8078	13.6591	0.0371	3.1668	0.1181	3.2578	1.5020	0.1172	1.5929	0.0000	3,637.3649	3,637.3649	0.1294	0.1404	3,682.4345

	ROG	NOx	CO	SO2	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	50.75	0.00	49.83	53.35	0.00	51.27	0.00	0.00	0.00	0.00	0.00	0.00

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	8/2/2049	8/27/2049	5	20	
2	Site Preparation	Site Preparation	8/28/2049	8/31/2049	5	2	
3	Grading	Grading	9/1/2049	9/6/2049	5	4	
4	Building Construction	Building Construction	9/7/2049	6/13/2050	5	200	
5	Paving	Paving	6/14/2050	6/27/2050	5	10	
6	Architectural Coating	Architectural Coating	6/28/2050	7/11/2050	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 237,999; Non-Residential Outdoor: 79,333; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	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
Demolition	5	13.00	4.00	364.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	67.00	26.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2049

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					3.9203	0.0000	3.9203	0.5936	0.0000	0.5936			0.0000			0.0000

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-Road	1.1266	5.7269	12.7926	0.0281		0.0980	0.0980		0.0980	0.0980		2,662.1297	2,662.1297	0.0978		2,664.5757
Total	1.1266	5.7269	12.7926	0.0281	3.9203	0.0980	4.0183	0.5936	0.0980	0.6915		2,662.1297	2,662.1297	0.0978		2,664.5757

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	0.0378	1.9297	0.6096	7.5900e-003	0.3187	0.0189	0.3376	0.0874	0.0181	0.1055		821.5031	821.5031	0.0295	0.1300	860.9664
Vendor	3.8000e-003	0.1412	0.0558	5.5000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003		59.0860	59.0860	1.2700e-003	8.6600e-003	61.6975
Worker	0.0164	0.0101	0.2011	8.3000e-004	0.1453	2.5000e-004	0.1456	0.0385	2.3000e-004	0.0388		94.6461	94.6461	8.2000e-004	1.7700e-003	95.1949
Total	0.0580	2.0809	0.8665	8.9700e-003	0.4896	0.0201	0.5097	0.1333	0.0193	0.1525		975.2352	975.2352	0.0316	0.1404	1,017.8588

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6759	0.0000	1.6759	0.2538	0.0000	0.2538			0.0000			0.0000
Off-Road	1.1266	5.7269	12.7926	0.0281		0.0980	0.0980		0.0980	0.0980	0.0000	2,662.1297	2,662.1297	0.0978		2,664.5757
Total	1.1266	5.7269	12.7926	0.0281	1.6759	0.0980	1.7739	0.2538	0.0980	0.3517	0.0000	2,662.1297	2,662.1297	0.0978		2,664.5757

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0378	1.9297	0.6096	7.5900e-003	0.2970	0.0189	0.3159	0.0821	0.0181	0.1002		821.5031	821.5031	0.0295	0.1300	860.9664
Vendor	3.8000e-003	0.1412	0.0558	5.5000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.2000e-004	7.9000e-003		59.0860	59.0860	1.2700e-003	8.6600e-003	61.6975
Worker	0.0164	0.0101	0.2011	8.3000e-004	0.1339	2.5000e-004	0.1342	0.0358	2.3000e-004	0.0360		94.6461	94.6461	8.2000e-004	1.7700e-003	95.1949
Total	0.0580	2.0809	0.8665	8.9700e-003	0.4549	0.0201	0.4751	0.1248	0.0193	0.1440		975.2352	975.2352	0.0316	0.1404	1,017.8588

3.3 Site Preparation - 2049

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					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	0.8008	2.6618	5.7438	0.0211		0.0750	0.0750		0.0750	0.0750		1,994.6929	1,994.6929	0.0705		1,996.4543
Total	0.8008	2.6618	5.7438	0.0211	6.2662	0.0750	6.3412	3.0041	0.0750	3.0791		1,994.6929	1,994.6929	0.0705		1,996.4543

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8000e-003	0.1412	0.0558	5.5000e-004	0.0256	9.7000e-004	0.0266	7.3800e-003	9.2000e-004	8.3000e-003	59.0860	59.0860	1.2700e-003	8.6600e-003	61.6975	
Worker	0.0101	6.2000e-003	0.1238	5.1000e-004	0.0894	1.5000e-004	0.0896	0.0237	1.4000e-004	0.0239	58.2438	58.2438	5.1000e-004	1.0900e-003	58.5815	
Total	0.0139	0.1474	0.1796	1.0600e-003	0.1150	1.1200e-003	0.1162	0.0311	1.0600e-003	0.0322	117.3297	117.3297	1.7800e-003	9.7500e-003	120.2790	

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					2.6788	0.0000	2.6788	1.2843	0.0000	1.2843			0.0000			0.0000
Off-Road	0.8008	2.6618	5.7438	0.0211		0.0750	0.0750		0.0750	0.0750	0.0000	1,994.6929	1,994.6929	0.0705		1,996.4543
Total	0.8008	2.6618	5.7438	0.0211	2.6788	0.0750	2.7538	1.2843	0.0750	1.3592	0.0000	1,994.6929	1,994.6929	0.0705		1,996.4543

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	0.0000
Vendor	3.8000e-003	0.1412	0.0558	5.5000e-004	0.0240	9.7000e-004	0.0250	6.9800e-003	9.2000e-004	7.9000e-003	59.0860	59.0860	1.2700e-003	8.6600e-003	61.6975	

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0101	6.2000e-003	0.1238	5.1000e-004	0.0824	1.5000e-004	0.0826	0.0220	1.4000e-004	0.0221		58.2438	58.2438	5.1000e-004	1.0900e-003	58.5815
Total	0.0139	0.1474	0.1796	1.0600e-003	0.1064	1.1200e-003	0.1075	0.0290	1.0600e-003	0.0300		117.3297	117.3297	1.7800e-003	9.7500e-003	120.2790

3.4 Grading - 2049

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	0.9764	3.5432	7.7686	0.0252		0.0893	0.0893		0.0893	0.0893		2,388.2741	2,388.2741	0.0857		2,390.4165
Total	0.9764	3.5432	7.7686	0.0252	7.0826	0.0893	7.1719	3.4247	0.0893	3.5141		2,388.2741	2,388.2741	0.0857		2,390.4165

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	0.0000
Vendor	5.7000e-003	0.2118	0.0837	8.3000e-004	0.0384	1.4500e-003	0.0399	0.0111	1.3800e-003	0.0125		88.6289	88.6289	1.9000e-003	0.0130	92.5462
Worker	0.0126	7.7500e-003	0.1547	6.4000e-004	0.1118	1.9000e-004	0.1120	0.0296	1.7000e-004	0.0298		72.8047	72.8047	6.3000e-004	1.3600e-003	73.2288
Total	0.0183	0.2196	0.2384	1.4700e-003	0.1502	1.6400e-003	0.1519	0.0407	1.5500e-003	0.0423		161.4336	161.4336	2.5300e-003	0.0144	165.7731

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	0.9764	3.5432	7.7686	0.0252		0.0893	0.0893		0.0893	0.0893	0.0000	2,388.2741	2,388.2741	0.0857		2,390.4165
Total	0.9764	3.5432	7.7686	0.0252	3.0278	0.0893	3.1171	1.4641	0.0893	1.5534	0.0000	2,388.2741	2,388.2741	0.0857		2,390.4165

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	0.0000
Vendor	5.7000e-003	0.2118	0.0837	8.3000e-004	0.0360	1.4500e-003	0.0374	0.0105	1.3800e-003	0.0119		88.6289	88.6289	1.9000e-003	0.0130	92.5462
Worker	0.0126	7.7500e-003	0.1547	6.4000e-004	0.1030	1.9000e-004	0.1032	0.0275	1.7000e-004	0.0277		72.8047	72.8047	6.3000e-004	1.3600e-003	73.2268
Total	0.0183	0.2196	0.2384	1.4700e-003	0.1390	1.6400e-003	0.1406	0.0380	1.5500e-003	0.0395		161.4336	161.4336	2.5300e-003	0.0144	165.7731

3.5 Building Construction - 2049

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
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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525		2,152.6577	2,152.6577	0.0848		2,154.7787
Total	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525		2,152.6577	2,152.6577	0.0848		2,154.7787

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	0.0000
Vendor	0.0247	0.9178	0.3626	3.6000e-003	0.1666	6.2700e-003	0.1728	0.0480	6.0000e-003	0.0540		384.0587	384.0587	8.2400e-003	0.0563	401.0337
Worker	0.0845	0.0520	1.0366	4.3000e-003	0.7489	1.2700e-003	0.7502	0.1986	1.1700e-003	0.1998		487.7914	487.7914	4.2300e-003	9.1400e-003	490.6199
Total	0.1092	0.9697	1.3992	7.9000e-003	0.9155	7.5400e-003	0.9230	0.2466	7.1700e-003	0.2537		871.8501	871.8501	0.0125	0.0654	891.6536

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	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525	0.0000	2,152.6577	2,152.6577	0.0848		2,154.7787
Total	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525	0.0000	2,152.6577	2,152.6577	0.0848		2,154.7787

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0247	0.9178	0.3626	3.6000e-003	0.1559	6.2700e-003	0.1622	0.0453	6.0000e-003	0.0513		384.0587	384.0587	8.2400e-003	0.0563	401.0337
Worker	0.0845	0.0520	1.0366	4.3000e-003	0.6903	1.2700e-003	0.6916	0.1842	1.1700e-003	0.1854		487.7914	487.7914	4.2300e-003	9.1400e-003	490.6199
Total	0.1092	0.9697	1.3992	7.9000e-003	0.8462	7.5400e-003	0.8537	0.2296	7.1700e-003	0.2367		871.8501	871.8501	0.0125	0.0654	891.6536

3.5 Building Construction - 2050

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	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525		2,152.6577	2,152.6577	0.0848		2,154.7787
Total	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525		2,152.6577	2,152.6577	0.0848		2,154.7787

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0247	0.9191	0.3591	3.5800e-003	0.1666	6.2600e-003	0.1728	0.0480	5.9900e-003	0.0540	381.7632	381.7632	7.7700e-003	0.0560	398.6322	
Worker	0.0808	0.0518	1.0249	4.2600e-003	0.7489	1.2100e-003	0.7501	0.1986	1.1100e-003	0.1997	485.2712	485.2712	4.0700e-003	9.1200e-003	488.0894	
Total	0.1054	0.9709	1.3840	7.8400e-003	0.9155	7.4700e-003	0.9229	0.2466	7.1000e-003	0.2537	867.0344	867.0344	0.0118	0.0651	886.7216	

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	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525	0.0000	2,152.6577	2,152.6577	0.0848		2,154.7787
Total	0.9653	6.2823	12.0407	0.0238		0.0525	0.0525		0.0525	0.0525	0.0000	2,152.6577	2,152.6577	0.0848		2,154.7787

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	0.0000
Vendor	0.0247	0.9191	0.3591	3.5800e-003	0.1559	6.2600e-003	0.1621	0.0453	5.9900e-003	0.0513	381.7632	381.7632	7.7700e-003	0.0560	398.6322	
Worker	0.0808	0.0518	1.0249	4.2600e-003	0.6903	1.2100e-003	0.6915	0.1842	1.1100e-003	0.1853	485.2712	485.2712	4.0700e-003	9.1200e-003	488.0894	

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1054	0.9709	1.3840	7.8400e-003	0.8462	7.4700e-003	0.8537	0.2296	7.1000e-003	0.2367		867.0344	867.0344	0.0118	0.0651	886.7216
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3.6 Paving - 2050

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	0.6431	2.8019	9.4422	0.0165		0.0712	0.0712		0.0712	0.0712		1,550.9712	1,550.9712	0.0565		1,552.3842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6431	2.8019	9.4422	0.0165		0.0712	0.0712		0.0712	0.0712		1,550.9712	1,550.9712	0.0565		1,552.3842

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0157	0.0100	0.1989	8.3000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039
Total	0.0157	0.0100	0.1989	8.3000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.6431	2.8019	9.4422	0.0165		0.0712	0.0712		0.0712	0.0712	0.0000	1,550.9712	1,550.9712	0.0565		1,552.3842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6431	2.8019	9.4422	0.0165		0.0712	0.0712		0.0712	0.0712	0.0000	1,550.9712	1,550.9712	0.0565		1,552.3842

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0157	0.0100	0.1989	8.3000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039
Total	0.0157	0.0100	0.1989	8.3000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039

3.7 Architectural Coating - 2050

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
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Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Archit. Coating	29.4167					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957
Total	29.5316	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003		281.4481	281.4481	9.9000e-003		281.6957

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0157	0.0100	0.1989	8.3000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039
Total	0.0157	0.0100	0.1989	8.3000e-004	0.1453	2.3000e-004	0.1455	0.0385	2.2000e-004	0.0388		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039

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	29.4167					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1149	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	29.5316	0.7270	1.7923	2.9700e-003		7.4300e-003	7.4300e-003		7.4300e-003	7.4300e-003	0.0000	281.4481	281.4481	9.9000e-003		281.6957
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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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0157	0.0100	0.1989	8.3000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039
Total	0.0157	0.0100	0.1989	8.3000e-004	0.1339	2.3000e-004	0.1342	0.0358	2.2000e-004	0.0360		94.1571	94.1571	7.9000e-004	1.7700e-003	94.7039

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Phase 5 Mitigated
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	158.67	1000sqft	1.52	158,666.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Based on information provided by the College District.
- Trips and VMT - See Construction Phase 5 assumptions worksheet in the AQ/GHG appendix of the DEIR.
- Demolition -
- Architectural Coating - Mitigation
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186
- Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LotAcreage	3.64	1.52
tblTripsAndVMT	HaulingTripNumber	362.00	364.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblTripsAndVMT	VendorTripNumber	0.00	6.00
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2049	0.0595	0.3929	0.7249	1.7800e-003	0.1026	3.9600e-003	0.1066	0.0274	3.9300e-003	0.0313	0.0000	155.1330	155.1330	5.1100e-003	3.8100e-003	156.3955
2050	0.2127	0.4383	0.8394	1.9500e-003	0.0535	3.8700e-003	0.0574	0.0144	3.8500e-003	0.0183	0.0000	168.5387	168.5387	5.4000e-003	3.4500e-003	169.7020
Maximum	0.2127	0.4383	0.8394	1.9500e-003	0.1026	3.9600e-003	0.1066	0.0274	3.9300e-003	0.0313	0.0000	168.5387	168.5387	5.4000e-003	3.8100e-003	169.7020

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					
2049	0.0595	0.3929	0.7249	1.7800e-003	0.0652	3.9600e-003	0.0692	0.0176	3.9300e-003	0.0215	0.0000	155.1329	155.1329	5.1100e-003	3.8100e-003	156.3953
2050	0.2127	0.4383	0.8394	1.9500e-003	0.0495	3.8700e-003	0.0534	0.0135	3.8500e-003	0.0173	0.0000	168.5385	168.5385	5.4000e-003	3.4500e-003	169.7019
Maximum	0.2127	0.4383	0.8394	1.9500e-003	0.0652	3.9600e-003	0.0692	0.0176	3.9300e-003	0.0215	0.0000	168.5385	168.5385	5.4000e-003	3.8100e-003	169.7019

	ROG	NOx	CO	SO2	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	26.51	0.00	25.24	25.84	0.00	21.81	0.00	0.00	0.00	0.00	0.00	0.00

**Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-2-2049	11-1-2049	0.2639	0.2639
2	11-2-2049	2-1-2050	0.2736	0.2736
3	2-2-2050	5-1-2050	0.2640	0.2640
4	5-2-2050	8-1-2050	0.2958	0.2958
		Highest	0.2958	0.2958

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	8/2/2049	8/27/2049	5	20	
2	Site Preparation	Site Preparation	8/28/2049	8/31/2049	5	2	
3	Grading	Grading	9/1/2049	9/6/2049	5	4	
4	Building Construction	Building Construction	9/7/2049	6/13/2050	5	200	
5	Paving	Paving	6/14/2050	6/27/2050	5	10	
6	Architectural Coating	Architectural Coating	6/28/2050	7/11/2050	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 237,999; Non-Residential Outdoor: 79,333; Striped Parking Area: 0 (Architectural

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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	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
Demolition	5	13.00	4.00	364.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	67.00	26.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	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
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2049

Unmitigated Construction On-Site

**Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0392	0.0000	0.0392	5.9400e-003	0.0000	5.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0573	0.1279	2.8000e-004		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	24.1504	24.1504	8.9000e-004	0.0000	24.1726
Total	0.0113	0.0573	0.1279	2.8000e-004	0.0392	9.8000e-004	0.0402	5.9400e-003	9.8000e-004	6.9200e-003	0.0000	24.1504	24.1504	8.9000e-004	0.0000	24.1726

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	4.0000e-004	0.0193	6.0300e-003	8.0000e-005	3.1300e-003	1.9000e-004	3.3200e-003	8.6000e-004	1.8000e-004	1.0400e-003	0.0000	7.4452	7.4452	2.7000e-004	1.1800e-003	7.8029
Vendor	4.0000e-005	1.4000e-003	5.5000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.5352	0.5352	1.0000e-005	8.0000e-005	0.5588
Worker	1.5000e-004	1.1000e-004	2.1100e-003	1.0000e-005	1.4300e-003	0.0000	1.4300e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.8755	0.8755	1.0000e-005	2.0000e-005	0.8806
Total	5.9000e-004	0.0208	8.6900e-003	1.0000e-004	4.8100e-003	2.0000e-004	5.0100e-003	1.3100e-003	1.9000e-004	1.5000e-003	0.0000	8.8558	8.8558	2.9000e-004	1.2800e-003	9.2423

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					

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					0.0168	0.0000	0.0168	2.5400e-003	0.0000	2.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.0573	0.1279	2.8000e-004		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	24.1504	24.1504	8.9000e-004	0.0000	24.1726
Total	0.0113	0.0573	0.1279	2.8000e-004	0.0168	9.8000e-004	0.0177	2.5400e-003	9.8000e-004	3.5200e-003	0.0000	24.1504	24.1504	8.9000e-004	0.0000	24.1726

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	4.0000e-004	0.0193	6.0300e-003	8.0000e-005	2.9200e-003	1.9000e-004	3.1100e-003	8.1000e-004	1.8000e-004	9.9000e-004	0.0000	7.4452	7.4452	2.7000e-004	1.1800e-003	7.8029
Vendor	4.0000e-005	1.4000e-003	5.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.5352	0.5352	1.0000e-005	8.0000e-005	0.5588
Worker	1.5000e-004	1.1000e-004	2.1100e-003	1.0000e-005	1.3100e-003	0.0000	1.3200e-003	3.5000e-004	0.0000	3.5000e-004	0.0000	0.8755	0.8755	1.0000e-005	2.0000e-005	0.8805
Total	5.9000e-004	0.0208	8.6900e-003	1.0000e-004	4.4700e-003	2.0000e-004	4.6800e-003	1.2300e-003	1.9000e-004	1.4200e-003	0.0000	8.8558	8.8558	2.9000e-004	1.2800e-003	9.2423

3.3 Site Preparation - 2049

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					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-004	2.6600e-003	5.7400e-003	2.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.8096	1.8096	6.0000e-005	0.0000	1.8112
Total	8.0000e-004	2.6600e-003	5.7400e-003	2.0000e-005	6.2700e-003	7.0000e-005	6.3400e-003	3.0000e-003	7.0000e-005	3.0700e-003	0.0000	1.8096	1.8096	6.0000e-005	0.0000	1.8112

**Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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	1.4000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0535	0.0535	0.0000	1.0000e-005	0.0559
Worker	1.0000e-005	1.0000e-005	1.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0539	0.0539	0.0000	0.0000	0.0542
Total	1.0000e-005	1.5000e-004	1.8000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1074	0.1074	0.0000	1.0000e-005	0.1101

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					2.6800e-003	0.0000	2.6800e-003	1.2800e-003	0.0000	1.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-004	2.6600e-003	5.7400e-003	2.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.8096	1.8096	6.0000e-005	0.0000	1.8112
Total	8.0000e-004	2.6600e-003	5.7400e-003	2.0000e-005	2.6800e-003	7.0000e-005	2.7500e-003	1.2800e-003	7.0000e-005	1.3500e-003	0.0000	1.8096	1.8096	6.0000e-005	0.0000	1.8112

Mitigated Construction Off-Site

**Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive 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	1.4000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0535	0.0535	0.0000	1.0000e-005	0.0559
Worker	1.0000e-005	1.0000e-005	1.3000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0539	0.0539	0.0000	0.0000	0.0542
Total	1.0000e-005	1.5000e-004	1.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1074	0.1074	0.0000	1.0000e-005	0.1101

3.4 Grading - 2049

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	7.0900e-003	0.0155	5.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	4.3332	4.3332	1.6000e-004	0.0000	4.3371
Total	1.9500e-003	7.0900e-003	0.0155	5.0000e-005	0.0142	1.8000e-004	0.0144	6.8500e-003	1.8000e-004	7.0300e-003	0.0000	4.3332	4.3332	1.6000e-004	0.0000	4.3371

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					

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.2000e-004	1.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1606	0.1606	0.0000	2.0000e-005	0.1677
Worker	2.0000e-005	2.0000e-005	3.2000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1347	0.1347	0.0000	0.0000	0.1355
Total	3.0000e-005	4.4000e-004	4.8000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2953	0.2953	0.0000	2.0000e-005	0.3031

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					6.0600e-003	0.0000	6.0600e-003	2.9300e-003	0.0000	2.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	7.0900e-003	0.0155	5.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	4.3332	4.3332	1.6000e-004	0.0000	4.3371
Total	1.9500e-003	7.0900e-003	0.0155	5.0000e-005	6.0600e-003	1.8000e-004	6.2400e-003	2.9300e-003	1.8000e-004	3.1100e-003	0.0000	4.3332	4.3332	1.6000e-004	0.0000	4.3371

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.2000e-004	1.6000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1606	0.1606	0.0000	2.0000e-005	0.1677
Worker	2.0000e-005	2.0000e-005	3.2000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1347	0.1347	0.0000	0.0000	0.1355

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	3.0000e-005	4.4000e-004	4.8000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2953	0.2953	0.0000	2.0000e-005	0.3031
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3.5 Building Construction - 2049

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	0.0405	0.2639	0.5057	1.0000e-003		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	82.0200	82.0200	3.2300e-003	0.0000	82.1009
Total	0.0405	0.2639	0.5057	1.0000e-003		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	82.0200	82.0200	3.2300e-003	0.0000	82.1009

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0383	0.0150	1.5000e-004	6.8900e-003	2.6000e-004	7.1500e-003	1.9900e-003	2.5000e-004	2.2400e-003	0.0000	14.6105	14.6105	3.2000e-004	2.1400e-003	15.2564
Worker	3.2200e-003	2.2800e-003	0.0457	1.8000e-004	0.0309	5.0000e-005	0.0309	8.1900e-003	5.0000e-005	8.2400e-003	0.0000	18.9508	18.9508	1.6000e-004	3.6000e-004	19.0619
Total	4.3100e-003	0.0406	0.0606	3.3000e-004	0.0377	3.1000e-004	0.0381	0.0102	3.0000e-004	0.0105	0.0000	33.5613	33.5613	4.8000e-004	2.5000e-003	34.3182

Mitigated Construction On-Site

**Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive 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	0.0405	0.2639	0.5057	1.0000e-003		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	82.0200	82.0200	3.2300e-003	0.0000	82.1008
Total	0.0405	0.2639	0.5057	1.0000e-003		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	82.0200	82.0200	3.2300e-003	0.0000	82.1008

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0383	0.0150	1.5000e-004	6.4500e-003	2.6000e-004	6.7100e-003	1.8800e-003	2.5000e-004	2.1300e-003	0.0000	14.6105	14.6105	3.2000e-004	2.1400e-003	15.2564
Worker	3.2200e-003	2.2800e-003	0.0457	1.8000e-004	0.0285	5.0000e-005	0.0285	7.6000e-003	5.0000e-005	7.6500e-003	0.0000	18.9508	18.9508	1.6000e-004	3.6000e-004	19.0619
Total	4.3100e-003	0.0406	0.0606	3.3000e-004	0.0349	3.1000e-004	0.0352	9.4800e-003	3.0000e-004	9.7800e-003	0.0000	33.5613	33.5613	4.8000e-004	2.5000e-003	34.3182

3.5 Building Construction - 2050

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	0.0560	0.3644	0.6984	1.3800e-003		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	113.2658	113.2658	4.4600e-003	0.0000	113.3774

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0560	0.3644	0.6984	1.3800e-003		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	113.2658	113.2658	4.4600e-003	0.0000	113.3774
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-003	0.0530	0.0205	2.1000e-004	9.5100e-003	3.6000e-004	9.8700e-003	2.7400e-003	3.5000e-004	3.0900e-003	0.0000	20.0553	20.0553	4.1000e-004	2.9400e-003	20.9416
Worker	4.2400e-003	3.1300e-003	0.0623	2.5000e-004	0.0426	7.0000e-005	0.0427	0.0113	6.0000e-005	0.0114	0.0000	26.0349	26.0349	2.2000e-004	4.9000e-004	26.1877
Total	5.7400e-003	0.0561	0.0828	4.6000e-004	0.0521	4.3000e-004	0.0526	0.0141	4.1000e-004	0.0145	0.0000	46.0902	46.0902	6.3000e-004	3.4300e-003	47.1293

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	0.0560	0.3644	0.6984	1.3800e-003		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	113.2656	113.2656	4.4600e-003	0.0000	113.3772
Total	0.0560	0.3644	0.6984	1.3800e-003		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	113.2656	113.2656	4.4600e-003	0.0000	113.3772

Mitigated Construction Off-Site

**Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-003	0.0530	0.0205	2.1000e-004	8.9000e-003	3.6000e-004	9.2700e-003	2.6000e-003	3.5000e-004	2.9400e-003	0.0000	20.0553	20.0553	4.1000e-004	2.9400e-003	20.9416
Worker	4.2400e-003	3.1300e-003	0.0623	2.5000e-004	0.0393	7.0000e-005	0.0394	0.0105	6.0000e-005	0.0106	0.0000	26.0349	26.0349	2.2000e-004	4.9000e-004	26.1877
Total	5.7400e-003	0.0561	0.0828	4.6000e-004	0.0482	4.3000e-004	0.0486	0.0131	4.1000e-004	0.0135	0.0000	46.0902	46.0902	6.3000e-004	3.4300e-003	47.1293

3.6 Paving - 2050

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	3.2200e-003	0.0140	0.0472	8.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	7.0351	7.0351	2.6000e-004	0.0000	7.0415
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.2200e-003	0.0140	0.0472	8.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	7.0351	7.0351	2.6000e-004	0.0000	7.0415

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					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	7.0000e-005	5.0000e-005	1.0400e-003	0.0000	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4355	0.4355	0.0000	1.0000e-005	0.4380
Total	7.0000e-005	5.0000e-005	1.0400e-003	0.0000	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4355	0.4355	0.0000	1.0000e-005	0.4380

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	3.2200e-003	0.0140	0.0472	8.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	7.0351	7.0351	2.6000e-004	0.0000	7.0415
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.2200e-003	0.0140	0.0472	8.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	7.0351	7.0351	2.6000e-004	0.0000	7.0415

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	7.0000e-005	5.0000e-005	1.0400e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4355	0.4355	0.0000	1.0000e-005	0.4380

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	7.0000e-005	5.0000e-005	1.0400e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4355	0.4355	0.0000	1.0000e-005	0.4380
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3.7 Architectural Coating - 2050

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	0.1471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	3.6400e-003	8.9600e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.2766	1.2766	4.0000e-005	0.0000	1.2778
Total	0.1477	3.6400e-003	8.9600e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.2766	1.2766	4.0000e-005	0.0000	1.2778

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	7.0000e-005	5.0000e-005	1.0400e-003	0.0000	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4355	0.4355	0.0000	1.0000e-005	0.4380
Total	7.0000e-005	5.0000e-005	1.0400e-003	0.0000	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.4355	0.4355	0.0000	1.0000e-005	0.4380

Construction Phase 5 Mitigated - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.1471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	3.6400e-003	8.9600e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.2766	1.2766	4.0000e-005	0.0000	1.2778
Total	0.1477	3.6400e-003	8.9600e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.2766	1.2766	4.0000e-005	0.0000	1.2778

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	7.0000e-005	5.0000e-005	1.0400e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4355	0.4355	0.0000	1.0000e-005	0.4380
Total	7.0000e-005	5.0000e-005	1.0400e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4355	0.4355	0.0000	1.0000e-005	0.4380

Construction Phase 5 Mitigated
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	1	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	3	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Construction Phase 5 Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	5.70000E-004	3.64000E-003	8.96000E-003	1.00000E-005	4.00000E-005	4.00000E-005	0.00000E+000	1.27663E+000	1.27663E+000	4.00000E-005	0.00000E+000	1.27775E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	2.03000E-003	1.49500E-002	3.62600E-002	6.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	5.37656E+000	5.37656E+000	1.60000E-004	0.00000E+000	5.38058E+000
Cranes	1.72800E-002	3.04800E-002	1.01370E-001	5.30000E-004	1.15000E-003	1.15000E-003	0.00000E+000	4.56844E+001	4.56844E+001	1.37000E-003	0.00000E+000	4.57186E+001
Forklifts	6.50000E-003	3.51100E-002	8.93300E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Generator Sets	1.66600E-002	1.53370E-001	3.62660E-001	6.60000E-004	1.32000E-003	1.32000E-003	0.00000E+000	5.65208E+001	5.65208E+001	1.29000E-003	0.00000E+000	5.65531E+001
Graders	7.60000E-004	1.46000E-003	4.60000E-003	2.00000E-005	5.00000E-005	5.00000E-005	0.00000E+000	2.09143E+000	2.09143E+000	6.00000E-005	0.00000E+000	2.09300E+000
Pavers	7.70000E-004	2.11000E-003	1.19900E-002	2.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	1.86175E+000	1.86175E+000	6.00000E-005	0.00000E+000	1.86330E+000
Paving Equipment	8.60000E-004	2.25000E-003	1.38500E-002	3.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	2.16045E+000	2.16045E+000	7.00000E-005	0.00000E+000	2.16216E+000
Rollers	5.60000E-004	3.58000E-003	8.50000E-003	1.00000E-005	5.00000E-005	5.00000E-005	0.00000E+000	1.20934E+000	1.20934E+000	4.00000E-005	0.00000E+000	1.21046E+000
Rubber Tired Dozers	5.68000E-003	1.81700E-002	2.74800E-002	1.30000E-004	7.00000E-004	7.00000E-004	0.00000E+000	1.15665E+001	1.15665E+001	4.50000E-004	0.00000E+000	1.15777E+001
Tractors/Loaders/Bulldozers	1.84100E-002	1.07630E-001	2.68380E-001	4.30000E-004	1.16000E-003	1.16000E-003	0.00000E+000	3.73659E+001	3.73659E+001	1.45000E-003	0.00000E+000	3.74021E+001
Welders	4.40300E-002	3.38760E-001	4.74900E-001	7.70000E-004	1.64000E-003	1.64000E-003	0.00000E+000	5.64663E+001	5.64663E+001	3.58000E-003	0.00000E+000	5.65557E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	5.70000E-004	3.64000E-003	8.96000E-003	1.00000E-005	4.00000E-005	4.00000E-005	0.00000E+000	1.27663E+000	1.27663E+000	4.00000E-005	0.00000E+000	1.27775E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	2.03000E-003	1.49500E-002	3.62600E-002	6.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	5.37656E+000	5.37656E+000	1.60000E-004	0.00000E+000	5.38058E+000
Cranes	1.72800E-002	3.04800E-002	1.01370E-001	5.30000E-004	1.15000E-003	1.15000E-003	0.00000E+000	4.56844E+001	4.56844E+001	1.37000E-003	0.00000E+000	4.57185E+001
Forklifts	6.50000E-003	3.51100E-002	8.93300E-002	1.40000E-004	3.80000E-004	3.80000E-004	0.00000E+000	1.21389E+001	1.21389E+001	5.10000E-004	0.00000E+000	1.21517E+001
Generator Sets	1.66600E-002	1.53370E-001	3.62660E-001	6.60000E-004	1.32000E-003	1.32000E-003	0.00000E+000	5.65207E+001	5.65207E+001	1.29000E-003	0.00000E+000	5.65530E+001
Graders	7.60000E-004	1.46000E-003	4.60000E-003	2.00000E-005	5.00000E-005	5.00000E-005	0.00000E+000	2.09143E+000	2.09143E+000	6.00000E-005	0.00000E+000	2.09299E+000
Pavers	7.70000E-004	2.11000E-003	1.19900E-002	2.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	1.86175E+000	1.86175E+000	6.00000E-005	0.00000E+000	1.86330E+000
Paving Equipment	8.60000E-004	2.25000E-003	1.38500E-002	3.00000E-005	1.00000E-004	1.00000E-004	0.00000E+000	2.16044E+000	2.16044E+000	7.00000E-005	0.00000E+000	2.16215E+000
Rollers	5.60000E-004	3.58000E-003	8.50000E-003	1.00000E-005	5.00000E-005	5.00000E-005	0.00000E+000	1.20934E+000	1.20934E+000	4.00000E-005	0.00000E+000	1.21046E+000
Rubber Tired Dozers	5.68000E-003	1.81700E-002	2.74800E-002	1.30000E-004	7.00000E-004	7.00000E-004	0.00000E+000	1.15665E+001	1.15665E+001	4.50000E-004	0.00000E+000	1.15777E+001

Construction Phase 5 Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Tractors/Loaders/Bac hoes	1.84100E-002	1.07630E-001	2.68380E-001	4.30000E-004	1.16000E-003	1.16000E-003	0.00000E+000	3.73659E+001	3.73659E+001	1.45000E-003	0.00000E+000	3.74021E+001
Welders	4.40300E-002	3.38760E-001	4.74900E-001	7.70000E-004	1.64000E-003	1.64000E-003	0.00000E+000	5.64662E+001	5.64662E+001	3.58000E-003	0.00000E+000	5.65556E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.09447E-006	1.09447E-006	0.00000E+000	0.00000E+000	1.09365E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.64760E-006	1.64760E-006	0.00000E+000	0.00000E+000	8.22931E-007
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23848E-006	1.23848E-006	0.00000E+000	0.00000E+000	1.23778E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.77783E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.62867E-006	4.62867E-006	0.00000E+000	0.00000E+000	4.62500E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.72913E-006	1.72913E-006	0.00000E+000	0.00000E+000	8.63732E-007
Tractors/Loaders/Bac hoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07049E-006	1.07049E-006	0.00000E+000	0.00000E+000	1.06946E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.23772E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input			
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		

Construction Phase 5 Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Yes	Clean Paved Road	% PM Reduction	9.00				
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Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.07	0.05
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.09	0.02	0.08	0.02	0.08	0.07
Demolition	Fugitive Dust	0.04	0.01	0.02	0.00	0.57	0.57
Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Grading	Fugitive Dust	0.01	0.01	0.01	0.00	0.57	0.57
Grading	Roads	0.00	0.00	0.00	0.00	0.10	0.13
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.07	0.05
Site Preparation	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.17	0.00

CalEEMod Output: Existing 2021 Operation

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Existing 2021 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
Existing 2021
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	588.48	1000sqft	200.00	588,479.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity factor based on SCE 20202 Sustainability Report

Land Use - Based on the project description.

Construction Phase -

Vehicle Trips - Based on information provided by the traffic consultant and the default weekend trip rates.

Fleet Mix - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Energy Use -

Water And Wastewater - See modeling assumptions file in the AQ/GHG appendix for details. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.53	0.55
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.3610e-003	7.6350e-003
tblFleetMix	MCY	0.03	0.03

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	MDV	0.14	0.15
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblLandUse	LotAcreage	13.51	200.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	765.02	3,007.00
tblVehicleTrips	ST_TR	11.23	17.89
tblVehicleTrips	SU_TR	1.21	1.93
tblVehicleTrips	WD_TR	20.25	32.26
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,864,374.65	35,270,834.00
tblWater	OutdoorWaterUseRate	45,146,842.39	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

**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	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Energy	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Mobile	70.4144	63.8952	671.4847	1.2132	119.9774	0.8024	120.7798	31.8577	0.7453	32.6031		123,057.4984	123,057.4984	7.2087	4.5665	124,598.5315
Total	83.8582	66.5481	673.7730	1.2291	119.9774	1.0042	120.9816	31.8577	0.9471	32.8049		126,240.4403	126,240.4403	7.2701	4.6248	127,800.3958

Existing 2021 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Energy	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Mobile	70.4144	63.8952	671.4847	1.2132	119.9774	0.8024	120.7798	31.8577	0.7453	32.6031		123,057.4984	123,057.4984	7.2087	4.5665	124,598.5315
Total	83.8582	66.5481	673.7730	1.2291	119.9774	1.0042	120.9816	31.8577	0.9471	32.8049		126,240.4403	126,240.4403	7.2701	4.6248	127,800.3958

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

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	70.4144	63.8952	671.4847	1.2132	119.9774	0.8024	120.7798	31.8577	0.7453	32.6031		123,057.4984	123,057.4984	7.2087	4.5665	124,598.5315
Unmitigated	70.4144	63.8952	671.4847	1.2132	119.9774	0.8024	120.7798	31.8577	0.7453	32.6031		123,057.4984	123,057.4984	7.2087	4.5665	124,598.5315

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	18,981.98	10,526.83	1134.23	45,983,210	45,983,210
Total	18,981.98	10,526.83	1,134.23	45,983,210	45,983,210

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.550278	0.057440	0.178158	0.149745	0.029537	0.007635	0.000211	0.000316	0.000000	0.000000	0.026680	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
NaturalGas Unmitigated	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

5.2 Energy by Land Use - NaturalGas
Unmitigated

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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					
Junior College (2yr)	27053.9	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Total		0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

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					
Junior College (2yr)	27.0539	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Total		0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Unmitigated	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373

Existing 2021 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.4946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.6519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.6300e-003	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Total	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373

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	1.4946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.6519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.6300e-003	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Total	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Existing 2021 - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
Existing 2021
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	588.48	1000sqft	200.00	588,479.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity factor based on SCE 20202 Sustainability Report

Land Use - Based on the project description.

Construction Phase -

Vehicle Trips - Based on information provided by the traffic consultant and the default weekend trip rates.

Fleet Mix - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Energy Use -

Water And Wastewater - See modeling assumptions file in the AQ/GHG appendix for details. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.53	0.55
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.3610e-003	7.6350e-003
tblFleetMix	MCY	0.03	0.03

Existing 2021 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	MDV	0.14	0.15
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblLandUse	LotAcreage	13.51	200.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	765.02	3,007.00
tblVehicleTrips	ST_TR	11.23	17.89
tblVehicleTrips	SU_TR	1.21	1.93
tblVehicleTrips	WD_TR	20.25	32.26
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,864,374.65	35,270,834.00
tblWater	OutdoorWaterUseRate	45,146,842.39	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

**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	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Energy	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Mobile	61.3647	67.9235	595.1865	1.1124	119.9774	0.8025	120.7799	31.8577	0.7454	32.6031		112,851.4400	112,851.4400	7.4321	4.7367	114,448.7798
Total	74.8085	70.5764	597.4748	1.1283	119.9774	1.0043	120.9817	31.8577	0.9472	32.8049		116,034.3818	116,034.3818	7.4935	4.7951	117,650.6441

Existing 2021 - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Energy	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Mobile	61.3647	67.9235	595.1865	1.1124	119.9774	0.8025	120.7799	31.8577	0.7454	32.6031		112,851.4400	112,851.4400	7.4321	4.7367	114,448.7798
Total	74.8085	70.5764	597.4748	1.1283	119.9774	1.0043	120.9817	31.8577	0.9472	32.8049		116,034.3818	116,034.3818	7.4935	4.7951	117,650.6441

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

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	61.3647	67.9235	595.1865	1.1124	119.9774	0.8025	120.7799	31.8577	0.7454	32.6031		112,851.4400	112,851.4400	7.4321	4.7367	114,448.7798
Unmitigated	61.3647	67.9235	595.1865	1.1124	119.9774	0.8025	120.7799	31.8577	0.7454	32.6031		112,851.4400	112,851.4400	7.4321	4.7367	114,448.7798

Existing 2021 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	18,981.98	10,526.83	1134.23	45,983,210	45,983,210
Total	18,981.98	10,526.83	1,134.23	45,983,210	45,983,210

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.550278	0.057440	0.178158	0.149745	0.029537	0.007635	0.000211	0.000316	0.000000	0.000000	0.026680	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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
NaturalGas Mitigated	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
NaturalGas Unmitigated	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
Junior College (2yr)	27053.9	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Total		0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

Existing 2021 - San Bernardino-South Coast County, Winter
 EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Junior College (2yr)	27.0539	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Total		0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Unmitigated	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373

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	1.4946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.6519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.6300e-003	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Total	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373

Existing 2021 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.4946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.6519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.6300e-003	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373
Total	13.1521	5.5000e-004	0.0603	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1288	0.1288	3.4000e-004		0.1373

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Existing 2021 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
Existing 2021
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	588.48	1000sqft	200.00	588,479.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity factor based on SCE 20202 Sustainability Report

Land Use - Based on the project description.

Construction Phase -

Vehicle Trips - Based on information provided by the traffic consultant and the default weekend trip rates.

Fleet Mix - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Energy Use -

Water And Wastewater - See modeling assumptions file in the AQ/GHG appendix for details. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.53	0.55
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.3610e-003	7.6350e-003
tblFleetMix	MCY	0.03	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	MDV	0.14	0.15
tblFleetMix	MH	5.6010e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	5.8000e-004	0.00
tblFleetMix	SBUS	9.5500e-004	0.00
tblFleetMix	UBUS	2.6000e-004	0.00
tblLandUse	LotAcreage	13.51	200.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	765.02	3,007.00
tblVehicleTrips	ST_TR	11.23	17.89
tblVehicleTrips	SU_TR	1.21	1.93
tblVehicleTrips	WD_TR	20.25	32.26
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,864,374.65	35,270,834.00
tblWater	OutdoorWaterUseRate	45,146,842.39	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

**2.2 Overall Operational
Unmitigated Operational**

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					
Area	2.3999	7.0000e-005	7.5400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156
Energy	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	1,809.2832	1,809.2832	0.0931	0.0197	1,817.4863
Mobile	8.8758	10.2356	90.7258	0.1650	17.1803	0.1170	17.2973	4.5686	0.1087	4.6773	0.0000	15,186.7886	15,186.7886	0.9965	0.6415	15,402.8714
Waste						0.0000	0.0000		0.0000	0.0000	610.3938	0.0000	610.3938	36.0732	0.0000	1,512.2249
Water						0.0000	0.0000		0.0000	0.0000	12.4789	248.0283	260.5072	0.0590	0.0291	270.6489
Total	11.3290	10.7197	91.1400	0.1679	17.1803	0.1538	17.3341	4.5686	0.1455	4.7141	622.8727	17,244.1147	17,866.9874	37.2218	0.6903	19,003.2470

Existing 2021 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2.3999	7.0000e-005	7.5400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156
Energy	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	1,809.2832	1,809.2832	0.0931	0.0197	1,817.4863
Mobile	8.8758	10.2356	90.7258	0.1650	17.1803	0.1170	17.2973	4.5686	0.1087	4.6773	0.0000	15,186.7886	15,186.7886	0.9965	0.6415	15,402.8714
Waste						0.0000	0.0000		0.0000	0.0000	610.3938	0.0000	610.3938	36.0732	0.0000	1,512.2249
Water						0.0000	0.0000		0.0000	0.0000	12.4789	248.0283	260.5072	0.0590	0.0291	270.6489
Total	11.3290	10.7197	91.1400	0.1679	17.1803	0.1538	17.3341	4.5686	0.1455	4.7141	622.8727	17,244.1147	17,866.9874	37.2218	0.6903	19,003.2470

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.8758	10.2356	90.7258	0.1650	17.1803	0.1170	17.2973	4.5686	0.1087	4.6773	0.0000	15,186.7886	15,186.7886	0.9965	0.6415	15,402.8714
Unmitigated	8.8758	10.2356	90.7258	0.1650	17.1803	0.1170	17.2973	4.5686	0.1087	4.6773	0.0000	15,186.7886	15,186.7886	0.9965	0.6415	15,402.8714

Existing 2021 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	18,981.98	10,526.83	1134.23	45,983,210	45,983,210
Total	18,981.98	10,526.83	1,134.23	45,983,210	45,983,210

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.550278	0.057440	0.178158	0.149745	0.029537	0.007635	0.000211	0.000316	0.000000	0.000000	0.026680	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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	1,282.3328	1,282.3328	0.0830	0.0101	1,287.4045
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,282.3328	1,282.3328	0.0830	0.0101	1,287.4045
NaturalGas Mitigated	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818
NaturalGas Unmitigated	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818

Existing 2021 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	9.87468e+006	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818
Total		0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	9.87468e+006	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818
Total		0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	5.54347e+006	1,282.3328	0.0830	0.0101	1,287.4045
Total		1,282.3328	0.0830	0.0101	1,287.4045

Existing 2021 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	5.54347e+006	1,282.3328	0.0830	0.0101	1,287.4045
Total		1,282.3328	0.0830	0.0101	1,287.4045

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	2.3999	7.0000e-005	7.5400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156
Unmitigated	2.3999	7.0000e-005	7.5400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156

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	0.2728					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1265					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-004	7.0000e-005	7.5400e-003	0.0000	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156
Total	2.3999	7.0000e-005	7.5400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156

Existing 2021 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.2728					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1265					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-004	7.0000e-005	7.5400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156	
Total	2.3999	7.0000e-005	7.5400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156	

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	260.5072	0.0590	0.0291	270.6489
Unmitigated	260.5072	0.0590	0.0291	270.6489

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	35.2708 / 55.1714	260.5072	0.0590	0.0291	270.6489
Total		260.5072	0.0590	0.0291	270.6489

Existing 2021 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	35.2708 / 55.1714	260.5072	0.0590	0.0291	270.6489
Total		260.5072	0.0590	0.0291	270.6489

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	610.3938	36.0732	0.0000	1,512.2249
Unmitigated	610.3938	36.0732	0.0000	1,512.2249

8.2 Waste by Land Use

Unmitigated

Existing 2021 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	3007	610.3938	36.0732	0.0000	1,512.2249
Total		610.3938	36.0732	0.0000	1,512.2249

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	3007	610.3938	36.0732	0.0000	1,512.2249
Total		610.3938	36.0732	0.0000	1,512.2249

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
----------------	--------

11.0 Vegetation

CalEEMod Output: Existing 2050 Operation

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Existing 2021 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
Existing 2050
 San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	588.48	1000sqft	13.51	588,479.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - CO2 Intensity factor based on SCE 20202 Sustainability Report
- Land Use - Based on the project description.
- Construction Phase -
- Vehicle Trips - Based on information provided by the traffic consultant and the default weekend trip rates.
- Energy Use -
- Water And Wastewater - See modeling assumptions file in the AQ/GHG appendix for details. Assumes 100% aerobic treatment.
- Solid Waste - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.
- Fleet Mix - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	200.00
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1430e-003	6.3450e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	765.02	3,007.00
tblVehicleTrips	ST_TR	11.23	17.89
tblVehicleTrips	SU_TR	1.21	1.93
tblVehicleTrips	WD_TR	20.25	32.26
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,864,374.65	35,270,834.00
tblWater	OutdoorWaterUseRate	45,146,842.39	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

**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	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Energy	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Mobile	33.9104	18.4903	357.8647	0.7883	119.8766	0.2589	120.1356	31.8146	0.2401	32.0547		88,982.5549	88,982.5549	3.5857	2.5734	89,839.0837
Total	47.3541	21.1432	360.1524	0.8042	119.8766	0.4607	120.3374	31.8146	0.4419	32.2565		92,165.496	92,165.496	3.6471	2.6318	93,040.947

Existing 2021 - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Energy	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Mobile	33.9104	18.4903	357.8647	0.7883	119.8766	0.2589	120.1356	31.8146	0.2401	32.0547		88,982.5549	88,982.5549	3.5857	2.5734	89,839.0837
Total	47.3541	21.1432	360.1524	0.8042	119.8766	0.4607	120.3374	31.8146	0.4419	32.2565		92,165.4967	92,165.4967	3.6471	2.6318	93,040.9478

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

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	33.9104	18.4903	357.8647	0.7883	119.8766	0.2589	120.1356	31.8146	0.2401	32.0547		88,982.5549	88,982.5549	3.5857	2.5734	89,839.0837
Unmitigated	33.9104	18.4903	357.8647	0.7883	119.8766	0.2589	120.1356	31.8146	0.2401	32.0547		88,982.5549	88,982.5549	3.5857	2.5734	89,839.0837

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	18,981.98	10,526.83	1134.23	45,983,210	45,983,210
Total	18,981.98	10,526.83	1,134.23	45,983,210	45,983,210

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576395	0.062645	0.184759	0.124743	0.021623	0.006345	0.000211	0.000316	0.000000	0.000000	0.022963	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
NaturalGas Mitigated	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
NaturalGas Unmitigated	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Junior College (2yr)	27053.9	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Total		0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

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					
Junior College (2yr)	27.0539	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Total		0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Unmitigated	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.4946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.6519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4600e-003	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Total	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371

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	1.4946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.6519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4600e-003	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Total	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371

Existing 2021 - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

Existing 2050 - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
Existing 2050
 San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	588.48	1000sqft	200.00	588,479.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity factor based on SCE 20202 Sustainability Report

Land Use - Based on the project description.

Construction Phase -

Vehicle Trips - Based on information provided by the traffic consultant and the default weekend trip rates.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Water And Wastewater - See modeling assumptions file in the AQ/GHG appendix for details. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Fleet Mix - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	20.00
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06

Existing 2050 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1430e-003	6.3450e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblLandUse	LotAcreage	13.51	200.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	765.02	3,007.00
tblVehicleTrips	ST_TR	11.23	17.89
tblVehicleTrips	SU_TR	1.21	1.93
tblVehicleTrips	WD_TR	20.25	32.26
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,864,374.65	35,270,834.00
tblWater	OutdoorWaterUseRate	45,146,842.39	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

**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	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004			0.1371
Energy	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584		3,201.7270
Mobile	29.5007	20.0268	323.2506	0.7231	119.8766	0.2589	120.1356	31.8146	0.2401	32.0548		81,552.9124	81,552.9124	3.6688	2.6700		82,440.2878
Total	42.9443	22.6797	325.5383	0.7390	119.8766	0.4607	120.3374	31.8146	0.4419	32.2565		84,735.854	84,735.854	3.7302	2.7283		85,642.151

Existing 2050 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Energy	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Mobile	29.5007	20.0268	323.2506	0.7231	119.8766	0.2589	120.1356	31.8146	0.2401	32.0548		81,552.9124	81,552.9124	3.6688	2.6700	82,440.2878
Total	42.9443	22.6797	325.5383	0.7390	119.8766	0.4607	120.3374	31.8146	0.4419	32.2565		84,735.8543	84,735.8543	3.7302	2.7283	85,642.1519

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

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	29.5007	20.0268	323.2506	0.7231	119.8766	0.2589	120.1356	31.8146	0.2401	32.0548		81,552.9124	81,552.9124	3.6688	2.6700	82,440.2878
Unmitigated	29.5007	20.0268	323.2506	0.7231	119.8766	0.2589	120.1356	31.8146	0.2401	32.0548		81,552.9124	81,552.9124	3.6688	2.6700	82,440.2878

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	18,981.98	10,526.83	1,134.23	45,983,210	45,983,210
Total	18,981.98	10,526.83	1,134.23	45,983,210	45,983,210

Existing 2050 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576395	0.062645	0.184759	0.124743	0.021623	0.006345	0.000211	0.000316	0.000000	0.000000	0.022963	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
NaturalGas Mitigated	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
NaturalGas Unmitigated	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
kBTU/yr	lb/day											lb/day					
Junior College (2yr)	27053.9	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Total		0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016		3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

Existing 2050 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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						
Junior College (2yr)	27.0539	0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016			3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270
Total		0.2918	2.6523	2.2280	0.0159		0.2016	0.2016		0.2016	0.2016			3,182.8131	3,182.8131	0.0610	0.0584	3,201.7270

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Unmitigated	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371

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	1.4946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.6519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4600e-003	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Total	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371

Existing 2050 - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.4946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.6519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.4600e-003	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371
Total	13.1519	5.4000e-004	0.0597	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1288	0.1288	3.3000e-004		0.1371

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Existing 2021 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
Existing 2050
 San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	588.48	1000sqft	13.51	588,479.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity factor based on SCE 20202 Sustainability Report

Land Use - Based on the project description.

Construction Phase -

Vehicle Trips - Based on information provided by the traffic consultant and the default weekend trip rates.

Energy Use -

Water And Wastewater - See modeling assumptions file in the AQ/GHG appendix for details. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Fleet Mix - See modeling assumptions file in the AQ/GHG appendix of the DEIR for details.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	200.00
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1430e-003	6.3450e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	765.02	3,007.00
tblVehicleTrips	ST_TR	11.23	17.89
tblVehicleTrips	SU_TR	1.21	1.93
tblVehicleTrips	WD_TR	20.25	32.26
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,864,374.65	35,270,834.00
tblWater	OutdoorWaterUseRate	45,146,842.39	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

Existing 2021 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

**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	2.3999	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156
Energy	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	1,809.2832	1,809.2832	0.0931	0.0197	1,817.4863
Mobile	4.2699	3.0210	49.1029	0.1073	17.1656	0.0378	17.2033	4.5623	0.0350	4.5973	0.0000	10,975.6202	10,975.6202	0.4905	0.3607	11,095.3614
Waste						0.0000	0.0000		0.0000	0.0000	610.3938	0.0000	610.3938	36.0732	0.0000	1,512.2249
Water						0.0000	0.0000		0.0000	0.0000	12.4789	248.0283	260.5072	0.0590	0.0291	270.6489
Total	6.7230	3.5051	49.5169	0.1102	17.1656	0.0746	17.2401	4.5623	0.0718	4.6341	622.8727	13,032.9463	13,655.8190	36.7159	0.4095	14,695.7370

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	2.3999	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156
Energy	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	1,809.2832	1,809.2832	0.0931	0.0197	1,817.4863
Mobile	4.2699	3.0210	49.1029	0.1073	17.1656	0.0378	17.2033	4.5623	0.0350	4.5973	0.0000	10,975.6202	10,975.6202	0.4905	0.3607	11,095.3614
Waste						0.0000	0.0000		0.0000	0.0000	610.3938	0.0000	610.3938	36.0732	0.0000	1,512.2249
Water						0.0000	0.0000		0.0000	0.0000	12.4789	248.0283	260.5072	0.0590	0.0291	270.6489
Total	6.7230	3.5051	49.5169	0.1102	17.1656	0.0746	17.2401	4.5623	0.0718	4.6341	622.8727	13,032.9463	13,655.8190	36.7159	0.4095	14,695.7370

	ROG	NOx	CO	SO2	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.2699	3.0210	49.1029	0.1073	17.1656	0.0378	17.2033	4.5623	0.0350	4.5973	0.0000	10,975.620	10,975.620	0.4905	0.3607	11,095.361
Unmitigated	4.2699	3.0210	49.1029	0.1073	17.1656	0.0378	17.2033	4.5623	0.0350	4.5973	0.0000	10,975.620	10,975.620	0.4905	0.3607	11,095.361

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	18,981.98	10,526.83	1134.23	45,983,210	45,983,210
Total	18,981.98	10,526.83	1,134.23	45,983,210	45,983,210

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576395	0.062645	0.184759	0.124743	0.021623	0.006345	0.000211	0.000316	0.000000	0.000000	0.022963	0.000000	0.000000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,282.3328	1,282.3328	0.0830	0.0101	1,287.4045
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,282.3328	1,282.3328	0.0830	0.0101	1,287.4045
NaturalGas Mitigated	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818
NaturalGas Unmitigated	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818

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					
Junior College (2yr)	9.87468e+006	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818
Total		0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	9.87468e+006	0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818
Total		0.0533	0.4841	0.4066	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.9504	526.9504	0.0101	9.6600e-003	530.0818

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	5.54347e+006	1,282.3328	0.0830	0.0101	1,287.4045
Total		1,282.3328	0.0830	0.0101	1,287.4045

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	5.54347e+006	1,282.3328	0.0830	0.0101	1,287.4045
Total		1,282.3328	0.0830	0.0101	1,287.4045

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	2.3999	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156
Unmitigated	2.3999	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156

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	0.2728					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1265					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.8000e-004	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156
Total	2.3999	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156

Existing 2021 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.2728					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1265					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.8000e-004	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156	0.0156
Total	2.3999	7.0000e-005	7.4600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0146	0.0146	4.0000e-005	0.0000	0.0156	0.0156

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	260.5072	0.0590	0.0291	270.6489
Unmitigated	260.5072	0.0590	0.0291	270.6489

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	35.2708 / 55.1714	260.5072	0.0590	0.0291	270.6489
Total		260.5072	0.0590	0.0291	270.6489

Existing 2021 - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	35.2708 / 55.1714	260.5072	0.0590	0.0291	270.6489
Total		260.5072	0.0590	0.0291	270.6489

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	610.3938	36.0732	0.0000	1,512.2249
Unmitigated	610.3938	36.0732	0.0000	1,512.2249

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	3007	610.3938	36.0732	0.0000	1,512.2249
Total		610.3938	36.0732	0.0000	1,512.2249

Existing 2021 - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	3007	610.3938	36.0732	0.0000	1,512.2249
Total		610.3938	36.0732	0.0000	1,512.2249

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

CalEEMod Output: Existing Remaining 2050 Operation

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ExRemain - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

ExRemain

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	361.82	1000sqft	182.33	361,815.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on SCE's 2020 Sustainability Report.

Land Use - See modeling assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase - For operation emissions only.

Vehicle Trips - See modeling assumptions file in the AQ/GHG appendix of the DEIR.

Fleet Mix - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Energy Use -

Water And Wastewater - See modeling assumptions in the AQ/GHG appendix of the DEIR. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	1.00
tblConstructionPhase	PhaseEndDate	10/14/2022	1/10/2022
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02

ExRemain - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LHD2	6.1430e-003	6.3450e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblLandUse	LotAcreage	8.31	182.33
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	470.35	3,007.00
tblVehicleTrips	ST_TR	11.23	29.09
tblVehicleTrips	SU_TR	1.21	3.13
tblVehicleTrips	WD_TR	20.25	52.46
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	17,746,430.45	35,270,834.00
tblWater	OutdoorWaterUseRate	27,757,237.37	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

**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	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Energy	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
Mobile	33.9105	18.4904	357.8653	0.7883	119.8768	0.2589	120.1358	31.8147	0.2401	32.0548		88,982.6967	88,982.6967	3.5857	2.5735	89,839.2270
Total	42.1761	20.1214	359.2718	0.7981	119.8768	0.3830	120.2598	31.8147	0.3642	32.1789		90,939.6674	90,939.6674	3.6234	2.6093	91,807.8315

ExRemain - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Energy	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
Mobile	33.9105	18.4904	357.8653	0.7883	119.8768	0.2589	120.1358	31.8147	0.2401	32.0548		88,982.6967	88,982.6967	3.5857	2.5735	89,839.2270
Total	42.1761	20.1214	359.2718	0.7981	119.8768	0.3830	120.2598	31.8147	0.3642	32.1789		90,939.6674	90,939.6674	3.6234	2.6093	91,807.8315

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

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	33.9105	18.4904	357.8653	0.7883	119.8768	0.2589	120.1358	31.8147	0.2401	32.0548		88,982.6967	88,982.6967	3.5857	2.5735	89,839.2270
Unmitigated	33.9105	18.4904	357.8653	0.7883	119.8768	0.2589	120.1358	31.8147	0.2401	32.0548		88,982.6967	88,982.6967	3.5857	2.5735	89,839.2270

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	18,982.01	10,526.79	1,134.22	45,983,251	45,983,251
Total	18,982.01	10,526.79	1,134.22	45,983,251	45,983,251

ExRemain - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576395	0.062645	0.184759	0.124743	0.021623	0.006345	0.000211	0.000316	0.000000	0.000000	0.022963	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
NaturalGas Unmitigated	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	16633.6	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
Total		0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203

ExRemain - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Junior College (2yr)	16.6336	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
Total		0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Unmitigated	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843

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	0.9189					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1639					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3600e-003	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Total	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843

ExRemain - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.9189					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1639					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3600e-003	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Total	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

ExRemain - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

ExRemain

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	361.82	1000sqft	182.33	361,815.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on SCE's 2020 Sustainability Report.

Land Use - See modeling assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase - For operation emissions only.

Vehicle Trips - See modeling assumptions file in the AQ/GHG appendix of the DEIR.

Fleet Mix - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Energy Use -

Water And Wastewater - See modeling assumptions in the AQ/GHG appendix of the DEIR. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	1.00
tblConstructionPhase	PhaseEndDate	10/14/2022	1/10/2022
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02

ExRemain - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LHD2	6.1430e-003	6.3450e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblLandUse	LotAcreage	8.31	182.33
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	470.35	3,007.00
tblVehicleTrips	ST_TR	11.23	29.09
tblVehicleTrips	SU_TR	1.21	3.13
tblVehicleTrips	WD_TR	20.25	52.46
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	17,746,430.45	35,270,834.00
tblWater	OutdoorWaterUseRate	27,757,237.37	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

**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	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Energy	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
Mobile	29.5007	20.0268	323.2511	0.7231	119.8768	0.2589	120.1358	31.8147	0.2401	32.0548		81,553.0424	81,553.0424	3.6688	2.6700	82,440.4193
Total	37.7663	21.6579	324.6576	0.7329	119.8768	0.3830	120.2598	31.8147	0.3642	32.1789		83,510.0131	83,510.0131	3.7065	2.7059	84,409.0238

ExRemain - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004			0.0843
Energy	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359		1,968.5203
Mobile	29.5007	20.0268	323.2511	0.7231	119.8768	0.2589	120.1358	31.8147	0.2401	32.0548		81,553.0424	81,553.0424	3.6688	2.6700		82,440.4193
Total	37.7663	21.6579	324.6576	0.7329	119.8768	0.3830	120.2598	31.8147	0.3642	32.1789		83,510.0131	83,510.0131	3.7065	2.7059		84,409.0238

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

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	29.5007	20.0268	323.2511	0.7231	119.8768	0.2589	120.1358	31.8147	0.2401	32.0548		81,553.0424	81,553.0424	3.6688	2.6700	82,440.4193
Unmitigated	29.5007	20.0268	323.2511	0.7231	119.8768	0.2589	120.1358	31.8147	0.2401	32.0548		81,553.0424	81,553.0424	3.6688	2.6700	82,440.4193

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Junior College (2yr)	18,982.01	10,526.79	1,134.22	45,983,251	45,983,251
Total	18,982.01	10,526.79	1,134.22	45,983,251	45,983,251

ExRemain - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576395	0.062645	0.184759	0.124743	0.021623	0.006345	0.000211	0.000316	0.000000	0.000000	0.022963	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
NaturalGas Unmitigated	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	16633.6	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
Total		0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203

ExRemain - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Junior College (2yr)	16.6336	0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203
Total		0.1794	1.6307	1.3698	9.7800e-003		0.1239	0.1239		0.1239	0.1239		1,956.8914	1,956.8914	0.0375	0.0359	1,968.5203

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Unmitigated	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843

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	0.9189					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1639					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3600e-003	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Total	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843

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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	0.9189					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1639					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3600e-003	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843
Total	8.0862	3.3000e-004	0.0367	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0792	0.0792	2.0000e-004		0.0843

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

ExRemain - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

ExRemain

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	361.82	1000sqft	182.33	361,815.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on SCE's 2020 Sustainability Report.

Land Use - See modeling assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase - For operation emissions only.

Vehicle Trips - See modeling assumptions file in the AQ/GHG appendix of the DEIR.

Fleet Mix - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Energy Use -

Water And Wastewater - See modeling assumptions in the AQ/GHG appendix of the DEIR. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	1.00
tblConstructionPhase	PhaseEndDate	10/14/2022	1/10/2022
tblFleetMix	HHD	0.02	3.1600e-004
tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LHD2	6.1430e-003	6.3450e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	2.1100e-004
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblLandUse	LotAcreage	8.31	182.33
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	470.35	3,007.00
tblVehicleTrips	ST_TR	11.23	29.09
tblVehicleTrips	SU_TR	1.21	3.13
tblVehicleTrips	WD_TR	20.25	52.46
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	17,746,430.45	35,270,834.00
tblWater	OutdoorWaterUseRate	27,757,237.37	55,171,426.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

**2.2 Overall Operational
Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4755	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5600e-003
Energy	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	1,112.4030	1,112.4030	0.0572	0.0121	1,117.4465
Mobile	4.2699	3.0210	49.1029	0.1073	17.1656	0.0378	17.2033	4.5623	0.0350	4.5973	0.0000	10,975.6299	10,975.6299	0.4905	0.3607	11,095.3712
Waste						0.0000	0.0000		0.0000	0.0000	610.3938	0.0000	610.3938	36.0732	0.0000	1,512.2249
Water						0.0000	0.0000		0.0000	0.0000	12.4789	248.0283	260.5072	0.0590	0.0291	270.6489
Total	5.7782	3.3186	49.3575	0.1091	17.1656	0.0604	17.2260	4.5623	0.0577	4.6199	622.8727	12,336.070	12,958.942	36.6800	0.4019	13,995.701

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4755	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5600e-003
Energy	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	1,112.4030	1,112.4030	0.0572	0.0121	1,117.4465
Mobile	4.2699	3.0210	49.1029	0.1073	17.1656	0.0378	17.2033	4.5623	0.0350	4.5973	0.0000	10,975.6299	10,975.6299	0.4905	0.3607	11,095.3712
Waste						0.0000	0.0000		0.0000	0.0000	610.3938	0.0000	610.3938	36.0732	0.0000	1,512.2249
Water						0.0000	0.0000		0.0000	0.0000	12.4789	248.0283	260.5072	0.0590	0.0291	270.6489
Total	5.7782	3.3186	49.3575	0.1091	17.1656	0.0604	17.2260	4.5623	0.0577	4.6199	622.8727	12,336.0702	12,958.9429	36.6800	0.4019	13,995.7011

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.2699	3.0210	49.1029	0.1073	17.1656	0.0378	17.2033	4.5623	0.0350	4.5973	0.0000	10,975.6299	10,975.6299	0.4905	0.3607	11,095.3712
Unmitigated	4.2699	3.0210	49.1029	0.1073	17.1656	0.0378	17.2033	4.5623	0.0350	4.5973	0.0000	10,975.6299	10,975.6299	0.4905	0.3607	11,095.3712

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	18,982.01	10,526.79	1134.22	45,983,251	45,983,251
Total	18,982.01	10,526.79	1,134.22	45,983,251	45,983,251

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576395	0.062645	0.184759	0.124743	0.021623	0.006345	0.000211	0.000316	0.000000	0.000000	0.022963	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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	788.4177	788.4177	0.0510	6.1800e-003	791.5359
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	788.4177	788.4177	0.0510	6.1800e-003	791.5359
NaturalGas Mitigated	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	323.9853	323.9853	6.2100e-003	5.9400e-003	325.9106
NaturalGas Unmitigated	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	323.9853	323.9853	6.2100e-003	5.9400e-003	325.9106

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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					
Junior College (2yr)	6.07126e+006	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	323.9853	323.9853	6.2100e-003	5.9400e-003	325.9106
Total		0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	323.9853	323.9853	6.2100e-003	5.9400e-003	325.9106

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					
Junior College (2yr)	6.07126e+006	0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	323.9853	323.9853	6.2100e-003	5.9400e-003	325.9106
Total		0.0327	0.2976	0.2500	1.7900e-003		0.0226	0.0226		0.0226	0.0226	0.0000	323.9853	323.9853	6.2100e-003	5.9400e-003	325.9106

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	3.4083e+006	788.4177	0.0510	6.1800e-003	791.5359
Total		788.4177	0.0510	6.1800e-003	791.5359

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Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	3.4083e+06	788.4177	0.0510	6.1800e-003	791.5359
Total		788.4177	0.0510	6.1800e-003	791.5359

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4755	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5600e-003
Unmitigated	1.4755	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5600e-003

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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	0.1677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3074					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5600e-003
Total	1.4755	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5600e-003

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	0.1677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3074					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2000e-004	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5600e-003
Total	1.4755	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.9800e-003	8.9800e-003	2.0000e-005	0.0000	9.5600e-003

ExRemain - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	260.5072	0.0590	0.0291	270.6489
Unmitigated	260.5072	0.0590	0.0291	270.6489

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	35.2708 / 55.1714	260.5072	0.0590	0.0291	270.6489
Total		260.5072	0.0590	0.0291	270.6489

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	35.2708 / 55.1714	260.5072	0.0590	0.0291	270.6489
Total		260.5072	0.0590	0.0291	270.6489

ExRemain - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	610.3938	36.0732	0.0000	1,512.2249
Unmitigated	610.3938	36.0732	0.0000	1,512.2249

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	3007	610.3938	36.0732	0.0000	1,512.2249
Total		610.3938	36.0732	0.0000	1,512.2249

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	3007	610.3938	36.0732	0.0000	1,512.2249
Total		610.3938	36.0732	0.0000	1,512.2249

ExRemain - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

CalEEMod Output: Proposed New Operation

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New Proposed - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

New Proposed
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	396.45	1000sqft	4.99	396,447.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	509.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on SCE's 2020 Sustainability Report. See modeling assumptions in the AQ/GHG appendix of the DEIR.

Land Use - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Construction Phase - No construction. Operation emissions model run.

Vehicle Trips - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Fleet Mix - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Area Coating - Based on surface parking lot.

Water And Wastewater - See modeling assumptions in the AQ/GHG appendix of the DEIR. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	33124	19284
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	2/4/2022	1/10/2022
tblFleetMix	HHD	0.02	0.00

New Proposed - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1430e-003	6.3480e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblLandUse	LotAcreage	9.10	4.99
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	515.38	170.00
tblVehicleTrips	ST_TR	11.23	1.50
tblVehicleTrips	SU_TR	1.21	0.16
tblVehicleTrips	WD_TR	20.25	2.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	19,445,488.93	1,991,130.00
tblWater	OutdoorWaterUseRate	30,414,739.10	3,114,570.00
tblWater	SepticTankPercent	10.33	0.00

New Proposed - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

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	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Energy	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
Mobile	1.9119	1.0200	20.1743	0.0444	6.7567	0.0144	6.7711	1.7931	0.0134	1.8065		5,008.5805	5,008.5805	0.2020	0.1437	5,056.4393
Total	11.1576	2.4786	21.4950	0.0531	6.7567	0.1256	6.8823	1.7931	0.1245	1.9176		6,758.1384	6,758.1384	0.2361	0.1757	6,816.4062

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	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Energy	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
Mobile	1.9119	1.0200	20.1743	0.0444	6.7567	0.0144	6.7711	1.7931	0.0134	1.8065		5,008.5805	5,008.5805	0.2020	0.1437	5,056.4393
Total	11.1576	2.4786	21.4950	0.0531	6.7567	0.1256	6.8823	1.7931	0.1245	1.9176		6,758.1384	6,758.1384	0.2361	0.1757	6,816.4062

	ROG	NOx	CO	SO2	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

New Proposed - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	1.9119	1.0200	20.1743	0.0444	6.7567	0.0144	6.7711	1.7931	0.0134	1.8065		5,008.5805	5,008.5805	0.2020	0.1437	5,056.4393
Unmitigated	1.9119	1.0200	20.1743	0.0444	6.7567	0.0144	6.7711	1.7931	0.0134	1.8065		5,008.5805	5,008.5805	0.2020	0.1437	5,056.4393

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	1,070.01	593.40	63.95	2,592,072	2,592,072
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,070.01	593.40	63.95	2,592,072	2,592,072

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576699	0.062678	0.184856	0.124808	0.021634	0.006348	0.000000	0.000000	0.000000	0.000000	0.022975	0.000000	0.000000
Other Asphalt Surfaces	0.558039	0.060650	0.178875	0.120770	0.020934	0.006143	0.012443	0.015691	0.000493	0.000199	0.022232	0.000895	0.002635
Parking Lot	0.558039	0.060650	0.178875	0.120770	0.020934	0.006143	0.012443	0.015691	0.000493	0.000199	0.022232	0.000895	0.002635

New Proposed - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
NaturalGas Unmitigated	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459

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					
Junior College (2yr)	14869.5	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
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
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
Total		0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459

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					
Junior College (2yr)	14.8695	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
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
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
Total		0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459

New Proposed - San Bernardino-South Coast County, Summer
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Unmitigated	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210

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	1.0314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0452					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8100e-003	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Total	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210

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	1.0314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0452					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8100e-003	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Total	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210

New Proposed - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

New Proposed - San Bernardino-South Coast County, Winter
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

New Proposed
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	396.45	1000sqft	4.99	396,447.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on SCE's 2020 Sustainability Report. See modeling assumptions in the AQ/GHG appendix of the DEIR.

Land Use - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Construction Phase - No construction. Operation emissions model run.

Vehicle Trips - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Fleet Mix - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Area Coating - Based on surface parking lot.

Water And Wastewater - See modeling assumptions in the AQ/GHG appendix of the DEIR. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	33124	19284
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	2/4/2022	1/10/2022
tblFleetMix	HHD	0.02	0.00

New Proposed - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1430e-003	6.3480e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblLandUse	LotAcreage	9.10	4.99
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	515.38	170.00
tblVehicleTrips	ST_TR	11.23	1.50
tblVehicleTrips	SU_TR	1.21	0.16
tblVehicleTrips	WD_TR	20.25	2.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	19,445,488.93	1,991,130.00
tblWater	OutdoorWaterUseRate	30,414,739.10	3,114,570.00
tblWater	SepticTankPercent	10.33	0.00

New Proposed - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

**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	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Energy	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
Mobile	1.6632	1.1053	18.2218	0.0407	6.7567	0.0144	6.7711	1.7931	0.0134	1.8065		4,589.5257	4,589.5257	0.2067	0.1491	4,639.1230
Total	10.9090	2.5640	19.5425	0.0495	6.7567	0.1256	6.8823	1.7931	0.1245	1.9176		6,339.0837	6,339.0837	0.2408	0.1812	6,399.0898

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	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Energy	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
Mobile	1.6632	1.1053	18.2218	0.0407	6.7567	0.0144	6.7711	1.7931	0.0134	1.8065		4,589.5257	4,589.5257	0.2067	0.1491	4,639.1230
Total	10.9090	2.5640	19.5425	0.0495	6.7567	0.1256	6.8823	1.7931	0.1245	1.9176		6,339.0837	6,339.0837	0.2408	0.1812	6,399.0898

	ROG	NOx	CO	SO2	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

New Proposed - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	1.6632	1.1053	18.2218	0.0407	6.7567	0.0144	6.7711	1.7931	0.0134	1.8065		4,589.5257	4,589.5257	0.2067	0.1491	4,639.1230
Unmitigated	1.6632	1.1053	18.2218	0.0407	6.7567	0.0144	6.7711	1.7931	0.0134	1.8065		4,589.5257	4,589.5257	0.2067	0.1491	4,639.1230

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	1,070.01	593.40	63.95	2,592,072	2,592,072
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,070.01	593.40	63.95	2,592,072	2,592,072

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576699	0.062678	0.184856	0.124808	0.021634	0.006348	0.000000	0.000000	0.000000	0.000000	0.022975	0.000000	0.000000
Other Asphalt Surfaces	0.558039	0.060650	0.178875	0.120770	0.020934	0.006143	0.012443	0.015691	0.000493	0.000199	0.022232	0.000895	0.002635
Parking Lot	0.558039	0.060650	0.178875	0.120770	0.020934	0.006143	0.012443	0.015691	0.000493	0.000199	0.022232	0.000895	0.002635

New Proposed - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
NaturalGas Unmitigated	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459

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					
Junior College (2yr)	14869.5	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
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
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
Total		0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459

New Proposed - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Junior College (2yr)	14.8695	0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459
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
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
Total		0.1604	1.4578	1.2246	8.7500e-003		0.1108	0.1108		0.1108	0.1108		1,749.3503	1,749.3503	0.0335	0.0321	1,759.7459

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Unmitigated	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210

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	1.0314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0452					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8100e-003	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Total	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.0314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.0452					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.8100e-003	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210
Total	9.0854	8.6000e-004	0.0962	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2076	0.2076	5.3000e-004		0.2210

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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New Proposed - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

New Proposed - San Bernardino-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

New Proposed
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	396.45	1000sqft	4.99	396,447.00	0
Parking Lot	321.40	1000sqft	7.38	321,399.00	0
Other Asphalt Surfaces	230.67	1000sqft	5.30	230,673.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2050
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	509.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on SCE's 2020 Sustainability Report. See modeling assumptions in the AQ/GHG appendix of the DEIR.

Land Use - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Construction Phase - No construction. Operation emissions model run.

Vehicle Trips - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Fleet Mix - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Area Coating - Based on surface parking lot.

Water And Wastewater - See modeling assumptions in the AQ/GHG appendix of the DEIR. Assumes 100% aerobic treatment.

Solid Waste - See modeling assumptions in the AQ/GHG appendix of the DEIR.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	33124	19284
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	2/4/2022	1/10/2022
tblFleetMix	HHD	0.02	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblFleetMix	LDA	0.56	0.58
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1430e-003	6.3480e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	2.6350e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	4.9300e-004	0.00
tblFleetMix	SBUS	8.9500e-004	0.00
tblFleetMix	UBUS	1.9900e-004	0.00
tblLandUse	LotAcreage	9.10	4.99
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblSolidWaste	SolidWasteGenerationRate	515.38	170.00
tblVehicleTrips	ST_TR	11.23	1.50
tblVehicleTrips	SU_TR	1.21	0.16
tblVehicleTrips	WD_TR	20.25	2.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	19,445,488.93	1,991,130.00
tblWater	OutdoorWaterUseRate	30,414,739.10	3,114,570.00
tblWater	SepticTankPercent	10.33	0.00

New Proposed - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6576	1.1000e-004	0.0120	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0235	0.0235	6.0000e-005	0.0000	0.0251
Energy	0.0293	0.2661	0.2235	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	1,019.0412	1,019.0412	0.0528	0.0110	1,023.6472
Mobile	0.2407	0.1669	2.7680	6.0400e-003	0.9675	2.1000e-003	0.9696	0.2571	1.9500e-003	0.2591	0.0000	617.6983	617.6983	0.0276	0.0201	624.3922
Waste						0.0000	0.0000		0.0000	0.0000	34.5085	0.0000	34.5085	2.0394	0.0000	85.4933
Water						0.0000	0.0000		0.0000	0.0000	0.7045	14.0018	14.7063	3.3300e-003	1.6400e-003	15.2768
Total	1.9276	0.4330	3.0036	7.6400e-003	0.9675	0.0224	0.9899	0.2571	0.0222	0.2794	35.2129	1,650.7648	1,685.9778	2.1232	0.0328	1,748.8365

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6576	1.1000e-004	0.0120	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0235	0.0235	6.0000e-005	0.0000	0.0251
Energy	0.0293	0.2661	0.2235	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	1,019.0412	1,019.0412	0.0528	0.0110	1,023.6472
Mobile	0.2407	0.1669	2.7680	6.0400e-003	0.9675	2.1000e-003	0.9696	0.2571	1.9500e-003	0.2591	0.0000	617.6983	617.6983	0.0276	0.0201	624.3922
Waste						0.0000	0.0000		0.0000	0.0000	34.5085	0.0000	34.5085	2.0394	0.0000	85.4933
Water						0.0000	0.0000		0.0000	0.0000	0.5636	12.3141	12.8777	2.7400e-003	1.3200e-003	13.3401
Total	1.9276	0.4330	3.0036	7.6400e-003	0.9675	0.0224	0.9899	0.2571	0.0222	0.2794	35.0720	1,649.0771	1,684.1491	2.1226	0.0325	1,746.8977

	ROG	NOx	CO	SO2	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	0.40	0.10	0.11	0.03	0.98	0.11

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2407	0.1669	2.7680	6.0400e-003	0.9675	2.1000e-003	0.9696	0.2571	1.9500e-003	0.2591	0.0000	617.6983	617.6983	0.0276	0.0201	624.3922
Unmitigated	0.2407	0.1669	2.7680	6.0400e-003	0.9675	2.1000e-003	0.9696	0.2571	1.9500e-003	0.2591	0.0000	617.6983	617.6983	0.0276	0.0201	624.3922

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	1,070.01	593.40	63.95	2,592,072	2,592,072
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,070.01	593.40	63.95	2,592,072	2,592,072

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.576699	0.062678	0.184856	0.124808	0.021634	0.006348	0.000000	0.000000	0.000000	0.000000	0.022975	0.000000	0.000000
Other Asphalt Surfaces	0.558039	0.060650	0.178875	0.120770	0.020934	0.006143	0.012443	0.015691	0.000493	0.000199	0.022232	0.000895	0.002635
Parking Lot	0.558039	0.060650	0.178875	0.120770	0.020934	0.006143	0.012443	0.015691	0.000493	0.000199	0.022232	0.000895	0.002635

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	729.4166	729.4166	0.0472	5.7200e-003	732.3015
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	729.4166	729.4166	0.0472	5.7200e-003	732.3015
NaturalGas Mitigated	0.0293	0.2661	0.2235	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.6246	289.6246	5.5500e-003	5.3100e-003	291.3457
NaturalGas Unmitigated	0.0293	0.2661	0.2235	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.6246	289.6246	5.5500e-003	5.3100e-003	291.3457

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					
Junior College (2yr)	5.42736e+006	0.0293	0.2661	0.2235	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.6246	289.6246	5.5500e-003	5.3100e-003	291.3457
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	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
Total		0.0293	0.2661	0.2235	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.6246	289.6246	5.5500e-003	5.3100e-003	291.3457

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	5.42736e+006	0.0293	0.2661	0.2235	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.6246	289.6246	5.5500e-003	5.3100e-003	291.3457
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	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
Total		0.0293	0.2661	0.2235	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.6246	289.6246	5.5500e-003	5.3100e-003	291.3457

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	3.04075e+006	703.3952	0.0455	5.5200e-003	706.1771
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	112490	26.0215	1.6800e-003	2.0000e-004	26.1244
Total		729.4166	0.0472	5.7200e-003	732.3015

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	3.04075e+006	703.3952	0.0455	5.5200e-003	706.1771
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	112490	26.0215	1.6800e-003	2.0000e-004	26.1244
Total		729.4166	0.0472	5.7200e-003	732.3015

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6576	1.1000e-004	0.0120	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0235	0.0235	6.0000e-005	0.0000	0.0251
Unmitigated	1.6576	1.1000e-004	0.0120	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0235	0.0235	6.0000e-005	0.0000	0.0251

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	0.1882					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-003	1.1000e-004	0.0120	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0235	0.0235	6.0000e-005	0.0000	0.0251
Total	1.6576	1.1000e-004	0.0120	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0235	0.0235	6.0000e-005	0.0000	0.0251

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	0.1882					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4683					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-003	1.1000e-004	0.0120	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0235	0.0235	6.0000e-005	0.0000	0.0251
Total	1.6576	1.1000e-004	0.0120	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0235	0.0235	6.0000e-005	0.0000	0.0251

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.8777	2.7400e-003	1.3200e-003	13.3401
Unmitigated	14.7063	3.3300e-003	1.6400e-003	15.2788

7.2 Water by Land Use

Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	1.99113 / 3.11457	14.7063	3.3300e-003	1.6400e-003	15.2788
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		14.7063	3.3300e-003	1.6400e-003	15.2788

New Proposed - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

Indoor/Out door Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr			
Junior College (2yr)	1.5929 / 2.92458	12.8777	2.7400e-003	1.3200e-003	13.3401
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		12.8777	2.7400e-003	1.3200e-003	13.3401

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	34.5085	2.0394	0.0000	85.4933
Unmitigated	34.5085	2.0394	0.0000	85.4933

8.2 Waste by Land Use

Unmitigated

New Proposed - San Bernardino-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	170	34.5085	2.0394	0.0000	85.4933
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		34.5085	2.0394	0.0000	85.4933

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	170	34.5085	2.0394	0.0000	85.4933
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		34.5085	2.0394	0.0000	85.4933

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

New Proposed
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied
San Bernardino-South Coast County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	12.05	12.43	17.72	19.51	12.69
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.11	0.33		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			

New Proposed

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Parking Policy Pricing	Unbundle Parking Costs	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00	
No	Transit Improvements	Provide BRT System	0.00	
No	Transit Improvements	Expand Transit Network	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00	
		Land Use and Site Enhancement Subtotal	0.00	
No	Commute	Implement Trip Reduction Program		
No	Commute	Transit Subsidy		
No	Commute	Implement Employee Parking "Cash Out"		
No	Commute	Workplace Parking Charge		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00	
No	Commute	Market Commute Trip Reduction Option	0.00	
No	Commute	Employee Vanpool/Shuttle	0.00	2.00
No	Commute	Provide Ride Sharing Program		
	Commute	Commute Subtotal	0.00	
No	School Trip	Implement School Bus Program	0.00	
		Total VMT Reduction	0.00	

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	100.00

New Proposed

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	

New Proposed

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

No	Water Efficient Landscape	0.00	0.00
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Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services	
Percent Reduction in Waste Disposed	

4. Screening-Level Construction Localized Significance Thresholds Worksheets

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Construction Localized Significance Thresholds: P1 Demolition

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1	25	82	25	82	13.89

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment U	Daily Hours	Acres
25		Tractors	0.5			0
NOx	118	Graders	0.5			0
CO	863	Dozers	0.5	2	8	1
PM10	5.00	Scrapers	1			0
PM2.5	4.00					1.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10		863	1328	2423	5691	23065
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5		5	14	44	103	280
	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
1.00 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P1 All Overlap

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	5	25	82	25	82	13.89

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment U	Daily Hours	Acres
25		Tractors	0.5	6	8	3
NOx	270	Graders	0.5	1	8	0.5
CO	2,193	Dozers	0.5	6	8	3
PM10	15.99	Scrapers	1			0
PM2.5	9.00					6.50

	Acres	25	50	100	200	500
NOx	5	270	303	378	486	778
	5	270	303	378	486	778
	5	270	303	378	486	778
CO	5	2193	2978	5188	9611	29410
	5	2193	2978	5188	9611	29410
	5	2193	2978	5188	9611	29410
PM10	5	16	50	80	140	322
	5	16	50	80	140	322
	5	16	50	80	140	322
PM2.5	5	9	12	21	45	170
	5	9	12	21	45	170
	5	9	12	21	45	170
Northwest San Bernardino Valley						
5.00 Acres						
	25	50	100	200	500	
NOx	270	303	378	486	778	
CO	2193	2978	5188	9611	29410	
PM10	16	50	80	140	322	
PM2.5	9	12	21	45	170	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	5	32	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P1 Site Preparation

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	3.50	25	82	25	82	13.89

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment	Daily Hours	Acres
25		Tractors	0.5	0.0625	4	8
NOx	220	Graders	0.5	0.0625		0
CO	1,712	Dozers	0.5	0.0625	3	8
PM10	10.99	Scrapers	1	0.125		0
PM2.5	7.00					3.50

	Acres	25	50	100	200	500
NOx	3	203	234	301	414	715
	4	237	269	340	450	747
CO		220	252	321	432	731
	3	1552	2244	3875	7722	26315
	4	1873	2611	4531	8667	27863
PM10		1713	2428	4203	8195	27089
	3	9	29	49	91	214
	4	13	40	65	115	268
PM2.5		11	35	57	103	241
	3	6	9	16	39	157
	4	8	11	19	42	163
		7	10	18	41	160

Northwest San Bernardino Valley						
3.50 Acres						
	25	50	100	200	500	
NOx	220	252	321	432	731	
CO	1713	2428	4203	8195	27089	
PM10	11	35	57	103	241	
PM2.5	7	10	18	41	160	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	3	32	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P1 Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	4.00	25	82	25	82	13.89
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment	Daily Hours	Acres
	25	Tractors	0.5	0.0625	2	8
NOx	237	Graders	0.5	0.0625	1	8
CO	1,872	Dozers	0.5	0.0625	1	8
PM10	12.66	Scrapers	1	0.125	2	8
PM2.5	7.67					Acres
						4.00
	Acres	25	50	100	200	500
NOx	4	237	269	340	450	747
	4	237	269	340	450	747
		237	269	340	450	747
CO	4	1873	2611	4531	8667	27863
	4	1873	2611	4531	8667	27863
		1873	2611	4531	8667	27863
PM10	4	13	40	65	115	268
	4	13	40	65	115	268
		13	40	65	115	268
PM2.5	4	8	11	19	42	163
	4	8	11	19	42	163
		8	11	19	42	163
Northwest San Bernardino Valley	4.00 Acres					
	25	50	100	200	500	
NOx	237	269	340	450	747	
CO	1873	2611	4531	8667	27863	
PM10	13	40	65	115	268	
PM2.5	8	11	19	42	163	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	4	32	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P1 Building Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
32	1.31	25	82	25	82	13.89	
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment	Daily Hours	Acres	
	25	Tractors	0.5	0.0625	3	7	1.3125
NOx	134	Graders	0.5	0.0625			0
CO	978	Dozers	0.5	0.0625			0
PM10	5.31	Scrapers	1	0.125			0
PM2.5	4.31						1.31
					Acres		
	Acres	25	50	100	200	500	
NOx	1	118	148	211	334	652	
	2	170	200	263	378	684	
		134	164	227	348	662	
CO	1	863	1328	2423	5691	23065	
	2	1232	1877	3218	6778	24768	
		978	1500	2671	6031	23597	
PM10	1	5	14	44	103	280	
	2	6	19	34	66	160	
		5	16	41	91	243	
PM2.5	1	4	6	12	32	141	
	2	5	8	14	36	150	
		4	7	13	33	144	
Northwest San Bernardino Valley	1.31 Acres						
	25	50	100	200	500		
NOx	134	164	227	348	662		
CO	978	1500	2671	6031	23597		
PM10	5	16	41	91	243		
PM2.5	4	7	13	33	144		

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P1 Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.00	25	82	25	82	13.89
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625		0
NOx	118	Graders	0.5	0.0625		0
CO	863	Dozers	0.5	0.0625		0
PM10	5.00	Scrapers	1	0.125		0
PM2.5	4.00				Acres	0.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley	0.00 Acres					
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P1 Architectural Coating

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.00	25	82	25	82	13.89

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	0.0625		0
NOx 118		Graders	0.5	0.0625		0
CO 863		Dozers	0.5	0.0625		0
PM10 5.00		Scrapers	1	0.125		0
PM2.5 4.00					Acres	0.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.00 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P2 Demolition

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1.23	25	82	43	140	1.23
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	3	8	1.5
NOx	130	Graders	0.5			0
CO	946	Dozers	0.5	1	8	0.5
PM10	12.22	Scrapers	1			0.0
PM2.5	5.80					2.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		130	160	223	344	659
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		946	1452	2602	5936	23449
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		5	15	42	95	253
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		4	6	12	33	143
Northwest San Bernardino Valley	1.23 Acres					
	25	50	100	200	500	
NOx	130	160	223	344	659	
CO	946	1452	2602	5936	23449	
PM10	5	15	42	95	253	
PM2.5	4	6	12	33	143	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P2 Site Preparation

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1.23	25	82	43	140	1.23

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres	
25		Tractors	0.5	0.0625	1	8	0.5
NOx	130	Graders	0.5	0.0625	1	8	0.5
CO	946	Dozers	0.5	0.0625	1	7	0.4375
PM10	12.22	Scrapers	1	0.125			0
PM2.5	5.80						1.44

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
CO	1	130	160	223	344	659
	2	863	1328	2423	5691	23065
PM10	1	1232	1877	3218	6778	24768
	2	946	1452	2602	5936	23449
PM2.5	1	5	14	44	103	280
	2	6	19	34	66	160
PM2.5	1	5	15	42	95	253
	2	4	6	12	32	141
PM2.5	1	4	6	12	36	150
	2	5	8	14	33	143
PM2.5	1	4	6	12	33	143
	2	5	8	14	36	150

Northwest San Bernardino Valley

1.23 Acres

	25	50	100	200	500
NOx	130	160	223	344	659
CO	946	1452	2602	5936	23449
PM10	5	15	42	95	253
PM2.5	4	6	12	33	143

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P2 Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1.23	25	82	43	140	1.23
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	2	7	0.875
NOx	130	Graders	0.5	1	8	0.5
CO	946	Dozers	0.5	1	8	0.5
PM10	12.22	Scrapers	1			0
PM2.5	5.80					1.88
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		130	160	223	344	659
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		946	1452	2602	5936	23449
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		5	15	42	95	253
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		4	6	12	33	143
Northwest San Bernardino Valley	1.23 Acres					
	25	50	100	200	500	
NOx	130	160	223	344	659	
CO	946	1452	2602	5936	23449	
PM10	5	15	42	95	253	
PM2.5	4	6	12	33	143	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P2 Building Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.38	25	82	43	140	1.23

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	1	6	0.375
NOx	118	Graders	0.5			0
CO	863	Dozers	0.5			0
PM10	11.36	Scrapers	1			0
PM2.5	5.41					0.38

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.38 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P2 Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.50	25	82	43	140	1.23
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	1	8	0.5
NOx	118	Graders	0.5			0
CO	863	Dozers	0.5			0
PM10	11.36	Scrapers	1			0
PM2.5	5.41					0
					Acres	0.50
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
0.50 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P2 Architectural Coating

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.00	25	82	43	140	1.23
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	0.0625		0
NOx	118	Graders	0.5	0.0625		0
CO	863	Dozers	0.5	0.0625		0
PM10	11.36	Scrapers	1	0.125		0
PM2.5	5.41				Acres	0.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
0.00 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 2 All Overlap

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1.23	25	82	43	140	1.23
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	5	8	2.5
NOx	130	Graders	0.5	2	8	1
CO	946	Dozers	0.5	2	8	1
PM10	12.22	Scrapers	1			0
PM2.5	5.80					4.50
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		130	160	223	344	659
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		946	1452	2602	5936	23449
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		5	15	42	95	253
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		4	6	12	33	143
Northwest San Bernardino Valley	1.23 Acres					
	25	50	100	200	500	
NOx	130	160	223	344	659	
CO	946	1452	2602	5936	23449	
PM10	5	15	42	95	253	
PM2.5	4	6	12	33	143	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P3 Site Preparation

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.30	25	82	43	140	0.30
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	1	8	0.5
NOx 118		Graders	0.5	1	8	0.5
CO 863		Dozers	0.5			0
PM10 11.36		Scrapers	1			0
PM2.5 5.41						1.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
0.30 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P3 Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.30	25	82	43	140	0.30
Northwest San Bernardino Valley Equipment						
Source Receptor Distance (meters)	25	Equipment	Acres/8-hr Day	Equipment U	Daily Hours	Acres
NOx	118	Tractors	0.5	0.0625	1 7	0.4375
CO	863	Graders	0.5	0.0625	1 6	0.375
PM10	11.36	Dozers	0.5	0.0625	1 6	0.375
PM2.5	5.41	Scrapers	1	0.125		0
					Acres	1.19
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
0.30 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P3 Buiding Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.30	25	82	43	140	0.30

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres	
25		Tractors	0.5	0.0625	2	8	1
NOx	118	Graders	0.5	0.0625			0
CO	863	Dozers	0.5	0.0625			0
PM10	11.36	Scrapers	1	0.125			0
PM2.5	5.41						1.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.30 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P3 Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.30	25	82	43	140	0.30

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	1	7	0.4375
NOx	118	Graders	0.5			0
CO	863	Dozers	0.5			0
PM10	11.36	Scrapers	1			0
PM2.5	5.41					0.44

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.30 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P3 Architectural Coating

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.00	25	82	43	140	0.30
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment	Daily Hours	Acres
	25	Tractors	0.5	0.0625		0
NOx	118	Graders	0.5	0.0625		0
CO	863	Dozers	0.5	0.0625		0
PM10	11.36	Scrapers	1	0.125		0
PM2.5	5.41				Acres	0.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
	0.00 Acres					
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 3 All Overlap

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.30	25	82	43	140	0.30
Northwest San Bernardino Valley Equipment						
Source Receptor Distance (meters)	25	Equipment	Acres/8-hr Day	Equipment	Daily Hours	Acres
NOx	118	Tractors	0.5	0.0625		0
CO	863	Graders	0.5	0.0625		0
PM10	11.36	Dozers	0.5	0.0625		0
PM2.5	5.41	Scrapers	1	0.125		0
					Acres	0.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141
Northwest San Bernardino Valley						
	0.30 Acres					
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P4 Demolition

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.73	25	82	43	140	0.73
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	2	8
NOx	118	Graders	0.5	0.0625		0
CO	863	Dozers	0.5	0.0625	1	8
PM10	11.36	Scrapers	1	0.125		0.5
PM2.5	5.41					0
					Acres	1.50
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
0.73 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P4 Site Preparation

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.73	25	82	43	140	0.73

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres	
25		Tractors	0.5	0.0625	1	8	0.5
NOx 118		Graders	0.5	0.0625	1	8	0.5
CO 863		Dozers	0.5	0.0625			0.0
PM10 11.36		Scrapers	1	0.125			0.0
PM2.5 5.41							1.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.73 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P4 Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.73	25	82	43	140	0.73

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	0.0625	1	7
118		Graders	0.5	0.0625	1	6
863		Dozers	0.5	0.0625	1	6
11.36		Scrapers	1	0.125		0
5.41						1.19

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.73 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P4 Building Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.73	25	82	43	140	0.73

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres	
25		Tractors	0.5	0.0625	2	8	1
NOx	118	Graders	0.5	0.0625			0
CO	863	Dozers	0.5	0.0625			0
PM10	11.36	Scrapers	1	0.125			0
PM2.5	5.41						1.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.73 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P4 Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.44	25	82	43	140	0.73

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day		Equipment Used	Daily Hours	Acres
25		Tractors	0.5		1	7	0.4375
NOx	118	Graders	0.5				0
CO	863	Dozers	0.5				0
PM10	11.36	Scrapers	1				0
PM2.5	5.41					Acres	0.44

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.44 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P4 Architectural Coating

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.00	25	82	43	140	0.73
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	0.0625		0
NOx	118	Graders	0.5	0.0625		0
CO	863	Dozers	0.5	0.0625		0
PM10	11.36	Scrapers	1	0.125		0
PM2.5	5.41				Acres	0.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
0.00 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 4 All Overlap

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.73	25	82	43	140	0.73
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	0.0625		0
NOx	118	Graders	0.5	0.0625		0
CO	863	Dozers	0.5	0.0625		0
PM10	11.36	Scrapers	1	0.125		0
PM2.5	5.41				Acres	0.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
0.73 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P5 Demolition

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	2.50	25	82	25	82	17.30
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	3	8	1.5
NOx	187	Graders	0.5			0
CO	1,392	Dozers	0.5	2	8	1
PM10	7.66	Scrapers	1			0
PM2.5	5.67					0
					Acres	2.50
	Acres	25	50	100	200	500
NOx	2	170	200	263	378	684
	3	203	234	301	414	715
		187	217	282	396	700
CO	2	1232	1877	3218	6778	24768
	3	1552	2244	3875	7722	26315
		1392	2061	3546	7250	25542
PM10	2	6	19	34	66	160
	3	9	29	49	91	214
		8	24	42	78	187
PM2.5	2	5	8	14	36	150
	3	6	9	16	39	157
		6	9	15	38	153
Northwest San Bernardino Valley	2.50 Acres					
	25	50	100	200	500	
NOx	187	217	282	396	700	
CO	1392	2061	3546	7250	25542	
PM10	8	24	42	78	187	
PM2.5	6	9	15	38	153	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	2	32	3
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P5 Site Preparation

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	3.50	25	82	25	82	17.30
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	3	8	1.5
NOx	220	Graders	0.5			0
CO	1,712	Dozers	0.5	4	8	2
PM10	10.99	Scrapers	1			0
PM2.5	7.00					0
					Acres	3.50
	Acres	25	50	100	200	500
NOx	3	203	234	301	414	715
	4	237	269	340	450	747
		220	252	321	432	731
CO	3	1552	2244	3875	7722	26315
	4	1873	2611	4531	8667	27863
		1713	2428	4203	8195	27089
PM10	3	9	29	49	91	214
	4	13	40	65	115	268
		11	35	57	103	241
PM2.5	3	6	9	16	39	157
	4	8	11	19	42	163
		7	10	18	41	160
Northwest San Bernardino Valley	3.50 Acres					
	25	50	100	200	500	
NOx	220	252	321	432	731	
CO	1713	2428	4203	8195	27089	
PM10	11	35	57	103	241	
PM2.5	7	10	18	41	160	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	3	32	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P5 Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	4.00	25	82	25	82	17.30

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day		Equipment Used	Daily Hours	Acres
25		Tractors	0.5		2	8	1
NOx	237	Graders	0.5		1	8	0.5
CO	1,872	Dozers	0.5		1	8	0.5
PM10	12.66	Scrapers	1		2	8	2
PM2.5	7.67						4.00

	Acres	25	50	100	200	500
NOx	4	237	269	340	450	747
	4	237	269	340	450	747
	4	237	269	340	450	747
CO	4	1873	2611	4531	8667	27863
	4	1873	2611	4531	8667	27863
	4	1873	2611	4531	8667	27863
PM10	4	13	40	65	115	268
	4	13	40	65	115	268
	4	13	40	65	115	268
PM2.5	4	8	11	19	42	163
	4	8	11	19	42	163
	4	8	11	19	42	163
Northwest San Bernardino Valley						
4.00 Acres						
	25	50	100	200	500	
NOx	237	269	340	450	747	
CO	1873	2611	4531	8667	27863	
PM10	13	40	65	115	268	
PM2.5	8	11	19	42	163	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	4	32	4
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P5 Building Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1.31	25	82	25	82	17.30
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	3	7	1.3125
NOx	134	Graders	0.5			0
CO	978	Dozers	0.5			0
PM10	5.31	Scrapers	1			0
PM2.5	4.31					1.31
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
		134	164	227	348	662
CO	1	863	1328	2423	5691	23065
	2	1232	1877	3218	6778	24768
		978	1500	2671	6031	23597
PM10	1	5	14	44	103	280
	2	6	19	34	66	160
		5	16	41	91	243
PM2.5	1	4	6	12	32	141
	2	5	8	14	36	150
		4	7	13	33	144
Northwest San Bernardino Valley	1.31 Acres					
	25	50	100	200	500	
NOx	134	164	227	348	662	
CO	978	1500	2671	6031	23597	
PM10	5	16	41	91	243	
PM2.5	4	7	13	33	144	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P5 Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.00	25	82	25	82	17.30

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	0.0625		0
NOx 118		Graders	0.5	0.0625		0
CO 863		Dozers	0.5	0.0625		0
PM10 5.00		Scrapers	1	0.125		0
PM2.5 4.00					Acres	0.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
	1	4	6	12	32	141

Northwest San Bernardino Valley

0.00 Acres

	25	50	100	200	500
NOx	118	148	211	334	652
CO	863	1328	2423	5691	23065
PM10	5	14	44	103	280
PM2.5	4	6	12	32	141

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: P5 Architectural Coating

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.00	25	82	25	82	17.30
Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
	25	Tractors	0.5	0.0625		0
NOx	118	Graders	0.5	0.0625		0
CO	863	Dozers	0.5	0.0625		0
PM10	5.00	Scrapers	1	0.125		0
PM2.5	4.00				Acres	0.00
	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
		118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
		863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
		5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141
Northwest San Bernardino Valley						
0.00 Acres						
	25	50	100	200	500	
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Phase 5 All Overlap

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	5.00	25	82	25	82	17.30
Northwest San Bernardino Valley						
Source Receptor Distance (meters)	25	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
NOx	270	Tractors	0.5	6	8	3
CO	2,193	Graders	0.5	1	8	0.5
PM10	15.99	Dozers	0.5	6	8	3
PM2.5	9.00	Scrapers	1	2	8	2
					Acres	8.50
	Acres	25	50	100	200	500
NOx	5	270	303	378	486	778
	5	270	303	378	486	778
		270	303	378	486	778
CO	5	2193	2978	5188	9611	29410
	5	2193	2978	5188	9611	29410
		2193	2978	5188	9611	29410
PM10	5	16	50	80	140	322
	5	16	50	80	140	322
		16	50	80	140	322
PM2.5	5	9	12	21	45	170
	5	9	12	21	45	170
		9	12	21	45	170
Northwest San Bernardino Valley						
	5.00 Acres	25	50	100	200	500
NOx	270	303	378	486	778	
CO	2193	2978	5188	9611	29410	
PM10	16	50	80	140	322	
PM2.5	9	12	21	45	170	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	5	32	5
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008